



COUNTY BOROUGH OF SALFORD.

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# ANNUAL REPORT

OF THE

## MEDICAL OFFICER OF HEALTH,

FOR THE YEAR

1894,

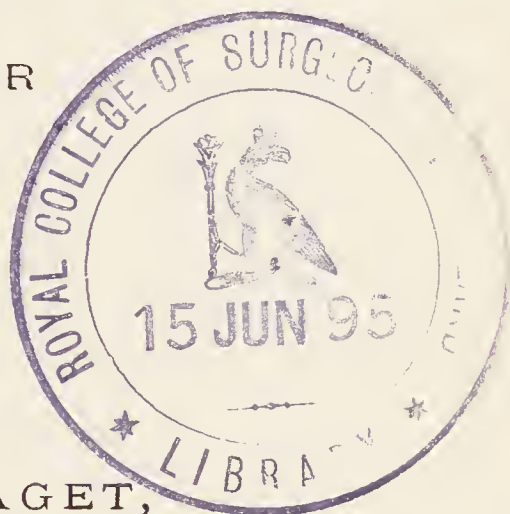
BY

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*Public Health Department,*

*Town Hall, Salford,*

*April 4th, 1895.*

TO THE HEALTH COMMITTEE.

GENTLEMEN,

I have the honour to present to you my Sixth Annual Report on the health of the County Borough of Salford, being the Annual Report of the Medical Officer of Health, for the year 1894. It has, as in past years, been drawn up in accordance with the General Order of the Local Government Board in respect of such reports.

It gives me particular pleasure to be able to call your attention to the fact that the general death-rate of the Borough for the year 1894 was lower than in any previous year since 1861—that is, for a period extending over thirty-four years, as may be seen in Table A of the report. But the general death rate was not slightly, it was markedly, lower than in any of the preceding thirty-three years, and was 20·9 per 1,000 of the population, as against 25·7 per 1,000 for the period 1886-90, as against 26·0 per 1,000 in the year 1891, 24·6 per 1,000 in the year 1892, and 24·0 in the year 1893. It is true that the general mortality rates of all the thirty-three large towns in England and Wales appear to have been much below their average rates during the year 1894; but this fact does not seriously affect the distinction of a low mortality in the Borough of Salford.

I am also glad to be able to report that the rate of infectious sickness in the Borough, during 1894, was, in spite of a considerable increase of scarlet-fever prevalence throughout the whole year, below the mean rate for the preceding ten years. A further satisfactory feature was the greatly increased percentage of cases isolated in hospital to the number of cases notified, the percentage having been as high as 51·4, as against 49·4 in the year 1893, 45·35 in 1892, 45·7 in 1891, and 39·0 in 1890.

This is a quite sufficient indication of the appreciation, by the inhabitants of the Borough, of the improved hospital accommodation which has been so lately provided at the instance of the Health Committee.

I desire to call attention to the large amount of work which was done during the year in respect of the examination of house and passage drains, and to urge that the annual flushing of all drains and sewers in the Borough, by means of the portable flushing tanks, be not discontinued.

I am, Gentlemen,

Your obedient servant,

CHARLES E. PAGET,

Medical Officer of Health.



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## I.

## STATISTICAL SUMMARY, 1894.

**Population.**—Estimated to the { **Males** ..... 99,307 } **Total** ..... 205,828  
middle of the year ..... { **Females** ... 106,521 }

**Marriages** ..... 1,750

**Annual Rate of Persons Married per 1,000 of the Population.** 17·0

**Births** ..... { **Males** ..... 3,503 } **Total** ..... 7,041  
..... { **Females** ... 3,538 }

**Annual Rate of Births per 1,000 of the Population**..... 34·2

**Deaths** ..... { **Males** ..... 2,133 } **Total** ..... 4,311  
..... { **Females** ... 2,178 }

**Annual Rate of Mortality** { **Males** ..... 21·5 } **Total** ..... 20·9  
per 1,000 ..... { **Females** ... 20·4 }

**Excess of Registered Births over Deaths** ..... 2,730

**Estimated Annual Increase of Population** ..... 2,401

**Density.**—The mean density of the Borough is equal to 39·8 persons per acre :—in Regent Road, 77·6 ; Greengate, 116·4 ; Pendleton, 21·9 ; Broughton, 27·8.

**Area.**—The Municipal Borough of Salford comprises the Townships of Salford (divided for statistical purposes into the Regent Road and Greengate Districts), Pendleton, and Broughton, and has a total area of 5,170 acres :—in Salford, 1,329 acres (Regent Road, 1,066 ; Greengate, 263) ; Pendleton, 2,415 ; Broughton, 1,426.

**Elevation.**—The mean elevation of the Borough is 140 feet above sea-level, and varies between 85 feet and 250 feet.



POPULATION, DENSITY, ANNUAL RATES OF BIRTHS, MARRIAGES, AND DEATHS,  
IN EACH OF THE THIRTY-

Year.	POPULATION (estimated to the middle of each year).					DENSITY (persons per acre).				
	Borough.	Regent Road.	Green-gate.	Pendleton.	Broughton.	Boro'.	Regent Road.	Green-gate.	Pendle-ton.	Broughton.
1861	102,920	33,756	37,519	21,649	9,996	19·9	31·7	142·8	9·0	7·0
1862*	104,975	34,928	37,458	22,139	10,450	20·3	32·7	142·4	9·2	7·3
1863	107,075	36,134	37,389	22,636	10,916	20·7	33·9	142·2	9·4	7·7
1864	109,262	37,374	37,313	23,182	11,393	21·1	35·0	141·8	9·6	8·0
1865	111,393	38,646	37,231	23,633	11,883	21·6	36·2	141·5	9·8	8·3
1861-65	107,125	36,167	37,382	22,648	10,928	20·7	33·9	142·1	9·4	7·7
1866	113,614	39,949	37,144	24,136	12,385	22·0	37·4	141·2	10·0	8·7
1867	115,885	41,294	37,045	24,644	12,902	22·4	38·7	140·8	10·2	9·1
1868*	118,198	42,674	36,941	25,152	13,434	22·9	40·0	140·4	10·4	9·4
1869	120,526	44,087	36,823	25,658	13,968	23·3	41·3	140·0	10·6	9·8
1870	122,965	45,551	36,704	26,177	14,533	23·8	42·7	139·4	10·8	10·2
1866-70	118,238	42,711	36,931	25,153	13,444	22·9	40·0	140·4	10·4	9·4
1871	125,890	47,195	36,517	26,920	15,258	24·3	44·2	138·8	11·1	10·7
1872	130,301	49,301	36,145	28,357	16,498	25·2	46·3	137·4	11·7	11·6
1873*	134,883	51,463	35,747	29,847	17,826	26·1	48·3	135·7	12·4	12·5
1874	139,618	53,670	35,319	31,386	19,243	27·0	50·3	134·3	13·0	13·5
1875	144,518	55,921	34,868	32,977	20,752	27·9	52·4	132·6	13·6	14·6
1871-75	135,042	51,510	35,719	29,897	17,916	26·1	48·3	135·8	12·4	12·6
1876	149,591	58,219	34,393	34,617	22,362	28·9	54·7	130·6	14·3	15·7
1877	154,842	60,561	33,898	36,308	24,075	29·9	56·8	128·8	15·0	16·9
1878	160,277	62,945	33,379	38,054	25,899	31·0	59·1	126·9	15·8	18·2
1879*	165,899	65,371	32,843	39,848	27,837	32·1	61·4	124·9	16·5	19·5
1880	171,727	67,839	32,291	41,697	29,900	33·2	63·6	122·8	17·2	21·0
1876-80	160,467	62,987	33,361	38,105	26,014	31·0	59·1	126·8	15·8	18·3
1881†	177,760	70,346	31,725	43,598	32,091	34·4	66·0	120·6	18·0	22·5
1882†	179,855	71,237	31,632	44,307	32,679	34·8	66·8	120·2	18·3	22·9
1883†	181,951	72,128	31,540	45,016	33,267	35·2	67·6	120·0	18·6	23·3
1884*†	184,047	73,019	31,447	45,725	33,856	35·6	68·5	119·6	18·9	23·7
1885†	186,142	73,911	31,353	46,434	34,444	36·0	69·4	119·2	19·2	24·2
1881-85†	181,951	72,128	31,540	45,016	33,267	35·2	67·6	120·0	18·6	23·3
1886†	188,238	74,802	31,261	47,143	35,032	36·4	70·4	118·8	19·5	24·6
1887†	190,334	75,693	31,168	47,852	35,621	36·8	71·0	118·5	19·8	25·0
1888†	192,429	76,584	31,075	48,561	36,209	37·2	71·9	118·2	20·1	25·4
1889†	194,525	77,476	30,982	49,270	36,797	37·6	72·8	117·8	20·4	25·8
1890*†	196,621	78,368	30,889	49,979	37,385	38·1	73·6	117·4	20·7	26·2
1886-90†	192,429	76,585	31,075	48,561	36,208	37·2	71·9	118·2	20·1	25·4
1891	198,717	79,257	30,797	50,688	37,975	38·5	74·6	117·1	21·0	26·6
1892	201,058	80,405	30,707	51,424	38,522	38·9	75·4	116·8	21·3	27·0
1893	203,427	81,514	30,707	52,140	39,066	39·3	76·5	116·4	21·6	27·3
1894	205,828	82,687	30,707	52,845	39,589	39·8	77·6	116·4	21·9	27·8

\* In the years 1862, 1868, 1873, 1879, 1884, and 1890 the facts are those registered in 53 instead of  
† Corrected after the results of the Census of 1891.

IN THE BOROUGH OF SALFORD, AND IN ITS FOUR REGISTRATION SUB-DISTRICTS,  
THREE YEARS, 1861-1893.

ANNUAL RATES PER 1,000 OF THE POPULATION.												
MARRIAGES.		BIRTHS					DEATHS.					Year.
Registration Districts.	Boro'.	Regent Road.	Green-gate	Pendle-ton.	Brough-ton.	Boro'.	Regent Road.	Green-gate.	Pendle-ton.	Brough-ton.		
11·9	39·7	40·0	43·9	38·0	26·9	24·6	27·8	26·1	21·8	13·8	1861	
10·2	39·0	38·7	42·5	39·4	25·9	25·3	29·4	27·8	19·6	14·7	1862	
11·7	38·0	37·9	42·0	37·0	26·9	26·0	28·3	29·1	22·5	15·0	1863	
12·7	38·6	37·3	44·3	38·2	24·7	26·5	28·7	31·0	21·7	14·6	1864	
12·9	37·8	37·3	42·8	36·2	26·4	29·1	32·3	32·8	25·2	14·8	1865	
11·9	38·6	38·2	43·1	37·8	26·2	26·3	29·3	29·4	22·2	14·6	1861-65	
13·4	37·9	38·5	42·8	35·6	25·9	28·8	32·2	33·9	23·0	13·6	1866	
14·3	39·0	40·7	42·2	37·0	28·2	28·2	31·9	31·9	22·8	15·7	1867	
13·3	39·3	38·5	43·5	40·4	27·9	30·5	34·3	33·0	28·7	14·9	1868	
14·1	38·9	39·1	43·2	38·3	27·6	26·4	29·2	29·2	23·3	15·8	1869	
14·1	39·6	41·7	43·1	36·3	30·3	25·8	30·4	27·3	21·3	15·3	1870	
13·8	38·9	39·7	43·0	37·5	28·0	27·9	31·6	31·1	23·8	15·1	1866-70	
14·6	40·7	43·6	44·2	39·4	26·2	30·3	34·9	32·4	27·2	16·2	1871	
15·1	41·4	45·3	44·1	35·7	34·0	25·3	28·9	28·8	20·4	15·6	1872	
14·3	41·5	43·7	43·0	40·5	34·1	28·3	32·2	30·1	26·6	16·7	1873	
16·2	42·1	45·9	40·9	37·3	41·8	28·2	32·6	29·2	24·9	19·5	1874	
17·5	44·4	48·9	41·0	40·9	43·5	29·5	34·8	32·0	23·7	20·6	1875	
15·5	42·0	45·5	42·6	38·8	35·9	28·3	32·7	30·5	24·6	17·7	1871-75	
20·5	45·5	47·7	43·3	44·1	45·3	29·5	34·5	30·2	24·9	22·4	1876	
19·6	44·4	47·0	40·7	43·1	44·7	26·3	31·8	26·3	21·9	19·6	1877	
17·9	44·7	46·5	42·5	42·9	45·6	27·1	29·8	28·8	23·6	23·2	1878	
15·2	43·0	45·5	40·9	42·5	40·0	26·7	27·5	31·6	24·7	21·5	1879	
16·6	41·4	41·3	41·6	42·7	39·5	27·9	31·5	33·2	23·3	20·6	1880	
18·0	43·8	45·6	41·8	43·1	43·0	27·5	31·0	30·0	23·7	21·7	1876-80	
16·4	38·8	40·2	39·2	38·9	34·7	22·5	24·8	24·9	21·5	16·5	1881	
16·9	39·7	41·7	40·6	38·6	35·5	23·7	25·6	28·9	21·0	17·9	1882	
16·1	37·3	39·9	38·5	35·2	33·0	23·6	25·8	28·6	21·3	17·0	1883	
16·1	38·8	40·3	41·3	36·5	36·5	24·4	26·3	28·4	22·4	19·1	1884	
16·1	37·6	40·2	36·7	36·3	34·4	23·0	25·1	28·1	20·7	17·0	1885	
16·3	38·4	40·5	39·2	37·1	34·8	23·4	25·5	27·8	21·4	17·5	1881-85	
15·3	38·5	39·5	40·3	37·3	36·0	24·8	26·7	30·3	22·1	19·4	1886	
15·4	36·6	38·7	37·0	35·5	32·9	25·5	26·2	33·0	24·0	19·4	1887	
15·2	37·1	37·7	38·6	37·5	34·1	24·8	27·7	28·2	23·5	17·7	1888	
16·7	35·9	37·0	38·1	35·5	32·4	25·1	27·4	28·9	23·6	18·9	1889	
17·5	36·1	38·0	38·0	35·9	30·8	27·7	28·9	36·4	25·0	21·6	1890	
16·0	36·8	38·2	38·4	36·3	33·2	25·7	27·5	31·5	23·8	19·5	1886-90	
18·2	36·3	37·5	38·4	36·5	31·8	26·0	26·8	32·3	25·5	19·5	1891	
16·7	35·8	36·1	39·8	35·8	30·4	24·6	25·6	33·1	23·3	17·8	1892	
16·2	34·7	35·4	37·6	34·8	30·6	24·0	24·9	30·2	23·6	19·1	1893	
17·0	34·2	34·2	38·4	35·7	29·1	20·9	22·1	26·4	19·3	16·5	1894	

52 weeks ; corrections have therefore been made in calculating the rates.



## II. MORTALITY STATISTICS.

---

Population

**Estimated Population.**--Following the calculation of the Registrar-General, which, as stated in my last annual report, I believe to be accurate, the estimated population of the Borough to the middle of the year 1894 was 205,828. The estimated distribution of population in the four registration districts is set down as follows:—Regent Road, 82,687 persons; Greengate, 30,707; Pendleton, 52,845; and Broughton, 39,589.

The actual excess of registered births over deaths, during the year 1894, was 2,730, as against 2,152 in 1893, 2,235 in 1892, and 2,054 in 1891. This excess is due simply to the diminution in the death rate, not to any increase in the number of births, for the number of births in 1894 was only 7,041, as against 7,047 in 1893, 7,190 in 1892, and 7,213 in 1891. The density of the population continues to differ widely in the several registration districts of the Borough, and, with the possible gradual depopulation of the Greengate district, and the extension of building operations in the Pendleton and Broughton districts in particular, this variation is likely not merely to continue, but to become even more emphasised in the future. The marriage rate was 17·0 per 1,000 of the population.

General  
Mortality

**Annual Rate of Mortality.**—The total number of deaths for the year 1894 was 4,311, as against 4,895 in 1893, and as against 4,955 in the year 1892. There were thus 584 fewer deaths than in 1893, and 644 fewer deaths than in 1892, even though the estimated increase of population between 1893 and 1894 was 2,401 persons. The death-rate for the Borough for the year 1894 was, therefore, 20·9 per 1,000 of the population, as against 24·0 per 1,000 in 1893, 24·6 per 1,000 in 1892, and 26·0 per 1,000 in 1891. Of even greater importance than these comparisons are those which may be made between the death-rate of 1894, and every preceding year since 1860. It is, in fact, the lowest general death-rate of the Borough during a known period of thirty-four years. In only one year, namely 1881, has the death-rate

approached that which belongs to the past year, and even that was 1·6 per 1,000 higher than the rate for 1894. These facts are clearly set forth in the columns of deaths in Table A of this report. In arriving at the correct general death-rate care has been taken, as formerly, to make allowance for the deaths of persons who died outside the Borough while yet belonging to it, as well as for those who, not belonging to the Borough, died within its boundaries. Of the former there were 72 deaths, of the latter there were 45 deaths. The deaths of Salford residents outside the Borough were distributable as follows:—Children's Hospital, Pendlebury, 30; Manchester Royal Infirmary, 28; St. Mary's Hospital, 3; Manchester Workhouse, 1; and 10 others which occurred in streets, etc.

It is obvious that some consideration of the features of the general mortality must be given in connection with the remarkable reduction already chronicled. Detailed examinations thereof will be found further on in this report, under particular headings, but for general purposes it may be said that the greatest falls in disease fatality were in respect of respiratory and bowel complaints. There was also a reduction of over 200 deaths from constitutional, developmental, and local diseases, as compared with the numbers for the year 1893.

**Annual Rate of Mortality compared with other large towns and cities of England and Wales.**—The recorded annual death rate of the Borough of Salford, as compared with the average for 33 of the other large towns and cities of the country, was, according to the Registrar-General, 2·8 per 1,000 above the average for the year. This rate is slightly higher as compared with that for the year 1893, when the death-rate for Salford was 2·51 per 1,000 above the average for that year. The annual rate of mortality for England and Wales was equal to 16·6 per 1,000 of the population; less the 100 great English towns, it was 15·7 per 1,000; and, in London, the general mortality rate was 17·8 per 1,000 of the population.

It will be noticed from the succeeding table that the death-rate among all the large towns for 1894 was largely below their usual rates.

**District Mortality-Rates.**—The district mortality-rates, from all causes, may be seen on reference to Table A and D of this report. The general rates from all causes were, for Regent Road district, 22·1 per 1,000 of population; for Greengate 26·4 per 1,000; for Pendleton, 19·3 per 1,000; and for Broughton, 16·5 per 1,000. These rates are all lower than for the year 1893, when they were 24·9, 30·2, 23·6, and 19·1 per 1,000 respectively. They are also much below the corresponding mean rates for the quinquennial period 1889–93, as may be seen on reference to Table D, being for Regent Road 22·1 per 1,000, as against 26·7; for Greengate, 26·4, as against 32·1; for Pendleton, 19·3, as

RECORDED DEATH-RATES PER 1,000 IN 33 GREAT TOWNS  
IN 1894.

Towns in the order supplied by the Registrar-General.	Recorded Death-rate.
England and Wales .....	16·6
England and Wales less the 33 Towns .....	15·8
33 Great English Towns .....	18·1
London .....	17·8
West Ham .....	16·2
Croydon .....	13·2
Brighton .....	16·4
Portsmouth .....	15·2
Plymouth .....	18·3
Bristol .....	17·3
Cardiff .....	16·2
Swansea .....	17·0
Wolverhampton .....	20·7
Birmingham .....	18·6
Norwich .....	18·7
Leicester .....	14·7
Nottingham .....	17·2
Derby .....	15·0
Birkenhead .....	18·1
Liverpool .....	23·8
Bolton .....	18·8
Manchester .....	20·4
<b>Salford .....</b>	<b>20·9</b>
Oldham .....	18·6
Burnley .....	18·7
Blackburn .....	17·9
Preston .....	20·8
Huddersfield .....	15·8
Halifax .....	16·5
Bradford .....	17·0
Leeds .....	17·9
Sheffield .....	17·8
Hull .....	17·4
Sunderland .....	20·8
Gateshead .....	17·7
Newcastle-upon-Tyne .....	18·3



TABLE B.

ESTIMATED POPULATION, AND ANNUAL RATES OF MORTALITY, AT ALL AGES,  
AND AT FIVE GROUPS OF AGES, IN THE FIFTY-TWO WEEKS OF THE YEAR  
1894, AND IN EACH YEAR IN THE PRECEDING DECADE.

	PERSONS		MALES		FEMALES.	
	Estimated Population, 1894.	Deaths 1894.	Estimated Population, 1894.	Deaths, 1894.	Estimated Population, 1894.	Deaths, 1894.
All Ages.....	205,828	4,311	99,307	2,133	106,521	2,178
Under 5 years.....	26,529	1,991	13,197	1,056	13,332	935
5-20 years .....	69,110	288	34,294	138	34,816	150
20-40 years .....	66,237	549	31,713	269	34,524	280
40-60 years .....	34,189	758	16,071	381	18,118	377
60 and upwards .....	9,763	725	4,032	289	5,731	436

ANNUAL RATES OF MORTALITY, TEN YEARS, 1884-93, AND IN 1894.

		1884.	1885	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	Mean 1884 to 1893.	1894.
PERSONS	All Ages .....	24.4	23.0	24.8	25.1	24.8	25.1	27.7	26.0	24.6	24.0	24.9	20.9
	Under 5 Years.	85.1	77.2	87.1	91.8	85.8	89.8	92.9	89.4	90.8	85.7	87.6	75.1
	5-20 ..	5.6	5.2	5.8	5.7	5.9	7.2	6.9	5.0	5.0	4.6	5.7	4.2
	20-40 ..	9.6	9.5	9.0	8.9	9.4	8.7	10.4	9.7	9.3	9.0	9.3	8.3
	40-60 ..	23.2	23.1	25.2	25.3	25.2	24.6	30.6	28.6	25.4	25.5	25.7	22.2
	60 and upwards	79.7	81.6	84.4	89.4	89.7	83.9	102.5	103.7	85.7	91.8	89.2	74.3
MALES.	All Ages .....	25.7	24.5	25.7	26.6	25.4	27.0	29.4	27.1	25.3	25.5	26.2	21.5
	Under 5 Years.	92.7	82.9	94.4	95.8	87.8	95.7	100.0	95.5	92.0	91.4	92.8	80.1
	5-20 ..	5.9	5.6	5.9	5.8	5.9	7.5	6.8	5.2	5.3	5.0	5.9	4.0
	20-40 ..	9.4	10.0	8.9	9.5	9.6	9.5	11.1	9.6	9.6	9.1	9.6	8.8
	40-60 ..	23.9	24.7	27.4	27.7	27.6	28.0	36.0	32.5	28.3	28.6	28.5	22.8
	60 and upwards	86.5	88.1	85.9	91.5	93.3	95.6	102.6	105.1	88.1	101.2	93.8	71.7
FEMALES.	All Ages .....	23.2	21.7	24.0	24.5	24.3	23.3	26.2	24.9	24.1	22.7	23.9	20.4
	Under 5 Years.	74.1	71.2	82.1	87.8	83.7	83.9	85.9	83.3	89.5	80.0	82.1	70.1
	5-20 ..	5.4	4.7	5.7	5.6	5.8	6.9	7.1	4.8	4.6	4.1	5.5	4.3
	20-40 ..	9.8	8.8	9.2	8.4	9.3	8.0	9.8	9.7	9.0	9.0	9.1	8.1
	40-60 ..	22.5	21.6	23.3	22.6	23.1	21.6	26.0	25.1	22.9	22.8	23.1	20.8
	60 and upwards	75.2	77.2	83.4	88.1	87.2	75.9	102.6	102.8	84.0	85.1	86.1	76.1

District  
Mortality

against 24·2; and for Broughton, 16·5, as against 19·2. It will thus be seen that the great reduction in the total mortality for the year 1894 has been produced by a fairly uniform reduction in the district mortalities, and not from any special cause, or causes, operating on one district more than on another.

The district zymotic and constitutional mortality-rates for the year 1894, all show reductions on the average rates for the quinquennial period 1889-93; but, in respect of developmental diseases, the rate for the Greengate district is slightly in excess of the quinquennial rate. With regard, moreover, to local diseases, there was an uniform diminution of mortality in each district; while from all other classes of disease, not particularly specified, the reduction was practically unimportant.

It will be noticed that, while there was a substantial reduction in the number of infantile deaths, this reduction was most marked in the Pendleton and Broughton districts, and was hardly appreciable in the Regent Road and Greengate districts. The conditions of property within the latter districts are sufficient to account for these showing less favourable results, in respect of infantile preservation, than are at present possible in the less crowded districts of Pendleton and Broughton. The diminution of mortality among children between the ages of one and five years was, however, much more marked and important in all the districts than in the case of infants under one year of age.

Mortality in  
Age-Classes

**Mortality in Age Groups.**—Table B shows the annual rates of mortality in the age-groups 0-5, 5-20, 20-40, 40-60, and at 60 years and upwards, as well as at all ages, amongst males, females, and in the total population, for the year 1894, and each preceding year of the decennium 1884-1893.

From this it will be seen that the total death-rate per 1,000 of population for the year 1894, was 4·0 per 1,000 less than for the preceding decennial period, and that there was also a substantial reduction in the mortalities for each age-group likewise, as compared with the average for the ten preceding years. It will, however, be noticed that the reduction for the age-group of from 40-60 years, was greater in the case of the males than in that of the females. This feature is the more interesting from the fact that the average mortality, at that age, is much greater in Salford among males than among females.

But apart from the comparison of the death-rate for 1894 with the preceding decennial average, it may be noted that in respect of both sexes, individually or combined, the mortality rates in each age-group for the year 1894 were, with a single exception, below the corresponding rates in each of the ten years 1884-93. The exception referred to is in respect of the mortality rate for females between the ages of from 5-20 years, the rate for 1894 being 4·3, as against 4·1 in the year 1893; and, in connection with this, it

**TABLE C.**

BIRTHS IN THE BOROUGH OF SALFORD AND IN ITS REGISTRATION SUB-DISTRICTS, AND DISTINGUISHING DEATHS OF LEGITIMATE AND ILLEGITIMATE INFANTS UNDER ONE YEAR OLD.

IN THE 52 WEEKS OF THE YEAR 1894.

	Births.		Percentage of Illegitimate Births to Total Births.	Deaths under One Year.		Proportion of Deaths under One Year per 1,000 Births.		
	Total.	Illegit.		Total.	Illegit.	Total.	Legit.	Illegit.
<b>Borough.....</b>	<b>7041</b>	<b>281</b>	<b>4.0</b>	<b>1222</b>	<b>78</b>	<b>174</b>	<b>169</b>	<b>278</b>
Regent Road District ...	2826	114	4.0	562	40	199	192	351
Greengate           ,,	1178	58	4.9	238	13	202	201	224
Pendleton           ,,	1885	66	3.5	260	18	138	133	273
Broughton           ,,	1152	43	3.7	162	*7	141	140	163

CORRESPONDING DATA FOR THE TEN YEARS 1884-1893.

<b>Borough.....</b>	<b>70962</b>	<b>2936</b>	<b>4.1</b>	<b>13673</b>	<b>1107</b>	<b>193</b>	<b>185</b>	<b>377</b>
Regent Road District ...	29260	1267	4.3	5994	487	205	197	384
Greengate           ,,	11909	585	4.9	2539	213	213	205	364
Pendleton           ,,	17716	691	3.9	3231	260	182	175	376
Broughton           ,,	12077	393	3.3	1909	147	158	151	374

\* Corrected for seven deaths in an Institution, which did not belong to the Borough.



may be pointed out that the rate of 4·1 for 1893 was 0·5 below the lowest rate for females in any of the preceding ten years 1883-1892. The comparisons made may thus be all regarded as distinctly favourable, in illustration of the uniform reduction of the death-rate for the year 1894.

Infantile Mor-  
tality and Births

**Infantile Mortality.—Births.**—There were 1,186 deaths of infants under one year of age, as compared with 1,494 deaths in 1893, 1,338 deaths in 1892, 1,399 deaths in 1891, and 1,415 deaths in 1890. This can scarcely be regarded otherwise than as one of the most satisfactory features of the mortality statistics for the year 1894. The number of births was 7,041, as against 7,047 in 1893, 7,190 in 1892, 7,213 in 1891, and 7,098 in 1890. The deaths were, therefore, far fewer, and the births less markedly fewer than in the four preceding years. As already pointed out, the proportion of deaths under one year of age per 1,000 births was below the average for the preceding five years, in each of the four registration districts of the Borough; but much more so in respect of two of those districts than in the others. The proportion for the year 1894 was 174, as against the quinquennial average of 194, as shewn in Table D, and as against 211 in 1893, 186 in 1892, 194 in 1891, and 199 in 1890. Though there was a large diminution of deaths from diarrhœa among children under five years of age, as compared with the year 1893; there was, on the other hand, an increased mortality among them from measles, scarlet-fever, and whooping cough, and, in respect of diarrhœa, not less than 101, out of the total 147 deaths from diarrhœa at all ages, were of infants under one year of age. An unsatisfactory feature of the birth-rate, however, is that, as shewn in Table C, the percentage of illegitimate births to the total births appears to be a rising, not a falling, quantity, the rate for the Borough in 1894 being 4·0 per cent., as against 3·6 per cent. in 1893, even though the decennial rate is actually 4·1 per cent. The rise appears to be chiefly in the Broughton district, which in 1894 was 3·7, as against 2·5 in 1893, and as against 3·3 the average for the preceding ten years 1884 to 1893.

PROPORTION OF DEATHS UNDER ONE YEAR OF AGE PER 1,000  
BIRTHS IN 33 GREAT TOWNS OF ENGLAND IN 1894.

The 33 Great Towns .....		152	
Croydon .....	121	Birkenhead .....	142
Derby .....	123	Hull .....	142
Portsmouth .....	131	London .....	143
Halifax .....	137	Bradford .....	145
West Ham .....	138	Bristol .....	148
Brighton .....	138	Gateshead .....	152
Cardiff .....	141	Leeds .....	156

PROPORTION OF DEATHS UNDER ONE YEAR, &c.—*Continued.*

Sheffield .....	157	Wolverhampton ...	166
Newcastle-on-Tyne .	157	Plymouth .....	167
Huddersfield .....	159	Sunderland .....	168
Manchester .....	160	Blackburn .....	169
Oldham .....	161	Burnley .....	170
Bolton .....	162	Salford .....	174
Swansea .....	162	Nottingham .....	174
Birmingham .....	163	Liverpool .....	180
Leicester.....	163	Preston .....	218
Norwich .....	165		

**Senile Mortality.**—Of the total 4,311 deaths at all ages and from all causes, 725, or 16·8 per cent. were of persons who had reached or had passed beyond the age of 60 years, as against 18·0 per cent. in 1893, 16·4 per cent. in 1892, 18·9 per cent. in 1891, and as against 17·5 per cent. in 1890. The death-rate for aged persons was 74·3 per 1,000 of the persons aged 60 years and upwards in the Borough, as against 91·8 per 1,000 in 1893, 85·7 in 1892, 103·7 in 1891, and as against 102·5 in 1890. The number of aged persons who, during the year 1894, died from bronchitis and pneumonia were respectively 120 and 58, as against 179 and 88 in the year 1893, and as against 162 and 74 in the year 1892. The death-rate, therefore, of old people who died in 1894 from bronchitis and pneumonia was 24·5 per cent. of the total deaths at that period of life, as against 30·1 per cent. in each of the years 1893 and 1892, and as against 30·9 per cent. in 1891.

**Classification of Causes of Deaths.**—Of the total 4,311 deaths at all ages, and from all causes, there were of—

Zymotic diseases	718 deaths, or 16·7 per cent. of the total deaths.
Constitutional „	799 „ 18·5 „ „ „
Developmental „	312 „ 7·2 „ „ „
Local „	1,966 „ 45·6 „ „ „
Other „	516 „ 12·0 „ „ „
	-----
	4,311 100·0

It is a satisfactory feature that the zymotic mortality is thus shewn to have been 2·0 per cent. less in 1894 than in the year 1893, and 3·7 per cent. less than in the year 1892. Although there was a total of 35 cases of small-pox during the year, there were only two deaths; and in respect of these, one was an unvaccinated infant, and the other a woman 46 years of age, on whom, though reputed to have been vaccinated in infancy, no trace of vaccination marks could be found. The death-rate from



TABLE D.

ANALYSIS OF MORTALITY—ANNUAL RATES PER 1,000 LIVING IN EACH OF THE REGISTRATION SUB-DISTRICTS OF SALFORD IN THE 52 WEEKS OF THE YEAR 1894 AND THE AVERAGE ANNUAL RATES IN THE PREVIOUS QUINQUENNIUM.

REGISTRATION SUB-DISTRICTS	ANNUAL RATE OF MORTALITY AT ALL AGES FROM ALL CAUSES AND FROM FIVE CLASSES OF DISEASE.											
	All Causes		Zymotic		Constitutional		Developmental		Local.		Other Classes.	
	Five Years 1889-93	1894	Five Years 1889-93	1894	Five Years 1889-93	1894	Five Years 1889-93	1894	Five Years 1889-93	1894	Five Years 1889-93	1894
REGENT RD	26·7	22·1	5·0	4·3	4·2	3·6	2·1	1·5	12·2	10·1	3·2	2·6
GREENGATE	32·1	26·4	6·1	4·0	5·3	5·0	2·1	2·3	15·3	11·9	3·3	3·2
PENDLETON	24·2	19·3	5·0	3·1	4·7	4·0	1·7	1·2	10·3	8·6	2·5	2·4
BROUGHTON	19·2	16·5	3·5	2·0	3·6	3·4	1·4	1·3	8·8	7·9	1·9	1·9
BOROUGH...	25·5	20·9	4·9	3·5	4·4	3·9	1·9	1·5	11·5	9·5	2·8	2·5

REGISTRATION SUB-DISTRICTS	FROM ALL CAUSES				AT ALL AGES FROM							
	Under 1 Year per 1000 Births.		Over 60 years.		Six Zymotics		Diarrhœa.		*Acute Lung Diseases.		Phthisis	
	Five Years 1889-93	1894	Five Years 1889-93	1894	Five Years 1889-93	1894	Five Years 1889-93	1894	Five Years 1889-93	1894	Five Years 1889-93	1894
REGENT RD	209	199	94·0	72·8	3·0	2·8	1·7	1·0	6·9	5·1	1·9	1·7
GREENGATE	209	202	123·5	92·9	3·7	2·8	1·8	1·1	8·8	5·7	2·7	2·5
PENDLETON	181	138	86·2	65·6	3·4	2·4	1·2	0·4	5·1	3·9	2·0	1·9
BROUGHTON	162	141	78·5	73·3	2·4	1·6	0·9	0·2	4·4	3·3	1·6	1·6
BOROUGH...	194	174	93·6	74·3	3·1	2·5	1·4	0·7	6·2	4·5	2·0	1·8

REGISTRATION SUB-DISTRICTS	ANNUAL RATE OF MORTALITY UNDER FIVE YEARS PER 1000 LIVING AT THAT AGE.											
	All Causes.		Nervous Diseases.		Six Zymotics		Diarrhœa.		*Acute Lung Diseases.		Tubercular Disease.	
	Five Years 1889-93	1894	Five Years 1889-93	1894	Five Years 1889-93	1894	Five Years 1889-93	1894	Five Years 1889-93	1894	Five Years 1889-93	1894
REGENT RD	96·9	83·4	7·2	6·5	16·4	17·5	11·7	7·0	20·4	19·1	9·1	7·9
GREENGATE	108·9	95·0	7·4	9·7	21·6	17·3	12·7	8·1	23·0	15·0	12·3	11·5
PENDLETON	87·2	64·1	5·1	6·3	19·0	12·9	8·7	2·6	16·2	13·0	12·7	7·9
BROUGHTON	62·6	55·9	6·0	5·6	11·7	11·2	6·0	1·7	13·2	11·6	7·4	5·0
BOROUGH...	89·7	75·1	6·5	6·7	17·0	15·1	10·0	5·0	18·3	15·5	10·2	7·9

\*True Croup is not included amongst "Acute Lung Diseases" in this table, although it forms part of the Sub-order "Respiratory diseases" of the Registrar General. It is however included in the "Local Class" of diseases at the head of the table.

small-pox for 1894 was, therefore, at the rate of 0.009 per 1,000 of population, as against 0.1 per 1,000 in 1893. Although the total numbers of deaths from measles, scarlet-fever, and whooping cough were considerably higher than in the year 1893, still the respective rates of mortality from these diseases were not in excess of the corresponding rates for the two preceding quinquennial periods 1884-88 and 1889-93. In the case of measles there were 144 deaths in the year 1894, as against 91 in the year 1893; and in the case of whooping cough there were 140 deaths in 1894, as against 98 in 1893.

The deaths from scarlet-fever were 110, as against 39 in the year 1893. This fact would seem of itself sufficient to indicate, what is dealt with later on in this report, that during 1894 there was a very considerable prevalence of the disease. At the same time, the mortality-rate for the year was only the same as the average rate for the quinquennial period 1889-93, and was actually 0.2 per 1,000 below the average rate for the quinquennial period 1884-88. A point of importance in respect of the mortality from this disease must, however, necessarily find expression here, namely: that the rate of mortality does not accurately indicate the amount of prevalence of the disease during the year. The actual number of cases of scarlet-fever in 1894 was only 178 in excess of the number in 1893, being 1,043, as against 865. The death-rate in 1894 was 0.5 per 1,000 of the population, in 1893 it was only 0.2 per 1,000. It is thus seen that the fatality from the disease in 1894 was much greater than in the preceding year, and it is a fact that the type of the disease was much more severe, particularly in the case of infants under five years of age, in 1894 than in the year 1893. The reason for this increased severity of disease did not become apparent, though it seemed to be chiefly manifested in cases arising in the more crowded portions of the Pendleton district.

The deaths from diphtheria were 51, as against 47 in the year 1893, 53 in 1892, 78 in 1891, and 206 in 1890. Thus the decline in mortality from this disease is being maintained. The number of cases, moreover, were 203, as against 207 in the year 1893, and the mortality-rate for each year was practically the same per 1,000 of the population. The case mortality, however, for the year 1894 was 25.0 per cent., as against 22.7 per cent. in the year 1893. This small difference is not sufficient to indicate any serious difference in the general type of the disease during these two years, nor was there any particularly observed.

The deaths from diarrhoea and dysentery, and, so called, simple cholera, were respectively 147 and 1 in the year 1894, as against 447 and 6 in 1893. Reckoned as totals, the deaths from these diseases in 1894 were, therefore, 148, as against 453 in 1893, 198 in 1892, and 177 in 1891. The numbers for 1894 were lower, then, than in any of the three preceding years, and in this connection



TABLE E.

AVERAGE ANNUAL RATES OF MORTALITY PER 1,000 LIVING AT CERTAIN AGE-GROUPS IN TWO SUCCESSIVE QUINQUENNIA, AND THE ANNUAL RATES IN THE YEAR 1894.

CAUSES OF DEATH.			All Ages.		Under 5 years.			5-20 years.			
			Quinquennial Means.		Year.	Quinquennial Means.		Year.	Quinquennial Means.		Year.
			1884-88.	1889-93.		1884-88.	1889-93.		1884-88.	1889-93.	
			1884-88.	1889-93.	1894.	1884-88.	1889-93.	1894.	1884-88.	1889-93.	1894.
All Causes .....			24.5	25.5	20.9	85.5	89.7	75.1	5.6	5.7	4.2
Smallpox .....			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Measles .....			0.8	0.9	0.7	5.8	6.2	5.3	0.1	0.1	0.0
Scarlatina .....			0.7	0.5	0.5	3.2	2.4	3.1	0.7	0.4	0.3
Diphtheria .....			0.1	0.6	0.2	0.6	2.9	1.5	0.2	0.6	0.2
Croup (not spasmodic).....			0.2	0.2	0.1	1.5	1.0	0.5	0.1	0.1	0.0
Whooping Cough .....			0.7	0.7	0.7	5.0	5.3	4.9	0.1	0.1	0.1
Cont'd Fevers.	{	Typhus .....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Enteric .....	0.4	0.4	0.3	0.2	0.2	0.3	0.5	0.5	0.2
		Continued.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diarrhoea and Dysentery .....			1.6	1.4	0.7	11.3	10.0	5.0	0.0	0.0	0.1
Puerperal Fever .....			0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Other Zymotics .....			0.3	0.2	0.2	1.8	1.3	1.2	0.0	0.0	0.1
Phthisis .....			2.5	2.0	1.8	0.6	0.4	0.3	1.0	0.7	0.5
Other Tubercular Diseases .....			1.2	1.5	1.2	7.3	9.8	7.6	0.4	0.6	0.5
Diseases of	{	Brain .....	2.9	2.1	2.1	10.7	6.5	6.7	0.6	0.3	0.3
		Heart .....	1.2	1.3	1.1	0.1	0.2	0.0	0.3	0.3	0.3
		Lungs .....	5.3	6.2	4.5	17.0	18.3	15.5	0.6	0.8	0.6
		Digestive System .....	1.0	1.1	1.1	2.4	3.9	4.2	0.2	0.2	0.1
Other Diseases .....			5.5	6.2	5.5	17.8	21.4	18.9	0.8	0.8	0.7

CAUSES OF DEATH.			20-40 years.		40-60 years.			Over 60 years.			
			Quinquennial Means.		Year.	Quinquennial Means.		Year.	Quinquennial Means.		Year.
			1884-88.	1889-93.		1884-88.	1889-93.		1884-88.	1889-93.	
			1884-88.	1889-93.	1894.	1884-88.	1889-93.	1894.	1884-88.	1889-93.	1894.
All Causes.....			9.3	9.4	8.3	24.4	26.9	22.2	85.1	93.6	74.3
Smallpox .....			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Measles .....			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scarlatina .....			0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Diphtheria .....			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Croup (not spasmodic) .....			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Whooping Cough .....			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cont'd Fevers.	{	Typhus .....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Enteric .....	0.4	0.6	0.5	0.3	0.3	0.2	0.0	0.1	0.0
		Continued .....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diarrhoea and Dysentery.....			0.0	0.0	0.0	0.2	0.2	0.1	1.2	1.7	0.9
Puerperal Fever .....			0.2	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.0
Other Zymotics .....			0.1	0.1	0.1	0.2	0.2	0.1	0.4	0.3	0.4
Phthisis .....			3.9	3.0	2.9	4.3	3.9	3.7	1.8	2.2	1.4
Other Tubercular Diseases .....			0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0
Diseases of	{	Brain .....	0.6	0.5	0.4	2.8	2.7	2.6	13.5	12.6	12.2
		Heart .....	0.7	0.8	0.7	2.9	3.0	2.6	8.3	7.9	7.8
		Lungs .....	1.1	1.9	1.4	6.6	9.2	5.6	28.0	29.7	19.7
		Digestive System .....	0.4	0.4	0.4	1.6	1.4	1.4	3.5	3.7	2.5
Other Diseases .....			1.7	1.8	1.6	5.4	5.7	5.6	28.3	35.2	29.4

the fact must be noticed that the period of great heat in the summer of 1894 was markedly shortened, as compared with that of 1893. It may be remembered that in my annual report for the latter year, I mentioned that the temperature in the neighbourhood of Salford, recorded by the Earth Thermometer (four-feet underground), of 56° Fahr. or over was registered from June 21st until October 7th. In 1894, on the other hand, like temperatures were only recorded between July 9th and September 17th. The period, therefore, during which it has been shewn that summer diarrhoea is most prone to prevail, was much shorter during 1894 than in 1893. Of the total deaths from diarrhoea during 1894, 133 were of infants under five years of age, and only 15 were of persons above that age.

The deaths from the acute lung diseases, as has been already mentioned, shew a great decline, as compared with previous years. During the year 1894 there were 931 deaths from these diseases, as against 1,096 in 1893, 1,212 in 1892, 1,476 in 1891, and 1,501 in 1890. As mentioned in my annual report, however, for 1893, it must be borne in mind that there were serious epidemics of influenza in the district during the period 1890-92 inclusive, and that, therefore, during the prevalence of that disease, large numbers of persons were specially prone to acute attacks of lung disease. There was also some prevalence of influenza during 1893, and the severity of the attacks was such as to occasion a considerable mortality from the disease. There were in that year as many as 79 deaths, as compared with 65 in 1892, 100 in 1891, and 20 in 1890. During 1894, however, there was a fall in the number of deaths to 31, and from the following table it will be seen that, as in previous years, the greatest amount of mortality from this disease was during the period of life above 20 years of age.

#### EPIDEMIC INFLUENZA MORTALITY, 1894.

DISTRICT.	Total Deaths	0-5 years.	5-20 years.	20-40 years.	40-60 years.	60 years and upwards
Regent Road.....	5	...	1	2	1	1
Greengate .....	10	1	1	4	3	1
Pendleton .....	6	3	...	...	2	1
Broughton.....	10	1	...	3	1	5
<b>Borough .....</b>	<b>31</b>	5	2	9	7	8



Causes of Deaths

The total death-rate from acute lung diseases for the year 1894 was well below the average rates for the two quinquennial periods 1884-88 and 1889-93, as may be seen on reference to Table E. This is one of the most satisfactory features, in respect of this class of mortality which I have at any time been able to report in connection with the Borough of Salford.

The deaths from phthisis during the year 1894 were 379, as compared with 393 in the year 1893, and 382 in 1892. The number of deaths, therefore, though actually below the numbers for preceding years, is not greatly so. At the same time, inasmuch as the number of deaths is actually fewer, and the estimated population is greater, the rate of mortality is more favourable, and, on reference to Table E, it will be found to be a lower rate than the average in either of the two preceding quinquennial periods 1884-88 and 1889-93. It is also a lower rate, by 0.1 per 1,000 of population, than in either of the years 1893 and 1892. It is satisfactory to note, in respect of this distressing and wasting disease, that the decrease in mortality from phthisis is especially noticeable during the age-periods of 0.5 years and 5-20 years. Indeed, in each age-group, it may be seen that the phthisis rate of mortality for 1894 is exactly one-half of that average rate which was recorded for the quinquennial period 1884-88. It is also satisfactory to note that the rate for the year 1894 is, besides, slightly below the average rate for the quinquennial period 1889-93.

The following tables give in detail the number of deaths from well-specified causes, both for the year 1894 and during the preceding ten years; in accordance with the custom which has been observed in my former annual reports.

Mortality from Special Diseases and groups of diseases

**Mortality from Special Diseases.—Diminution and Excess.**—The following table shows the greater or less fatality of disease in 1894, as compared with their simple decennial average number in the Borough :—

Cause of Death.	Diminution in 1894.	Excess in 1894.
Small-pox .....	1 ...	—
Measles .....	19 ...	—
Scarlet fever .....	— ...	1
Typhus fever.....	3 ...	—
Whooping cough .....	— ...	1
Diphtheria.....	21 ...	—
Ill-defined fever... ..	3 ...	—
Enteric fever.....	18 ...	—
Diarrhœal diseases .....	150 ...	—
Carried forward to page 34 ...	215 ...	2



**TABLE Fi.**

CAUSES OF DEATH REGISTERED IN EACH OF THE TEN YEARS 1884-93,  
IN 1894, AND THE AVERAGE DECENNIAL NUMBER.

	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	Average	1894
All Causes .....	4486	4283	4672	4856	4775	4877	5533	5159	4955	4895	<b>4846</b>	4311
Small Pox .....	...	1	...	...	8	...	...	...	1	22	<b>3</b>	2
Measles.....	100	178	47	320	132	220	103	130	306	91	<b>163</b>	144
Scarlet Fever .....	144	62	169	155	101	184	122	36	81	39	<b>109</b>	110
Typhus Fever .....	10	10	1	1	7	2	4	...	1	2	<b>4</b>	1
Whooping Cough .....	131	129	127	64	222	59	182	181	194	98	<b>139</b>	140
Diphtheria .....	22	17	12	21	61	206	206	78	53	47	<b>72</b>	51
Ill-defined Fever.....	8	5	5	2	3	2	...	...	3	1	<b>3</b>	...
Enteric Fever .....	81	48	61	82	90	112	83	76	79	96	<b>81</b>	63
Simple Cholera .....	3	2	8	1	1	3	5	1	...	6	<b>3</b>	1
Diarrhœa, Dysent :.....	374	244	393	339	184	340	256	177	198	447	<b>295</b>	147
Venereal Affections .....	53	41	35	27	41	34	30	21	19	25	<b>33</b>	30
Erysipelas.....	15	21	7	14	13	15	7	6	13	11	<b>12</b>	8
Pyæmia .....	6	1	3	8	7	7	16	6	10	11	<b>7</b>	9
Puerperal Fever .....	8	11	7	8	18	11	20	25	18	16	<b>14</b>	11
Other Zymotics .....	5	4	3	4	8	4	3	...	...	2	<b>3</b>	1
Parasitic Diseases .....	4	5	7	9	4	5	5	5	6	2	<b>5</b>	...
Dietic Dis : Intemp :.....	15	21	25	17	20	17	17	21	14	23	<b>19</b>	17
Rheumatic Fever .....	19	13	20	26	20	17	16	6	11	7	<b>15</b>	12
Cancer .....	93	96	90	94	103	109	100	103	119	121	<b>103</b>	126
Tabes Mesenterica .....	74	84	119	98	79	80	107	112	78	72	<b>90</b>	40
Tuberc : Mening: .....	93	95	95	60	75	115	171	165	155	133	<b>116</b>	125
Phthisis .....	477	487	489	433	446	365	425	436	382	393	<b>433</b>	379
Scrofula .....	31	41	70	49	35	50	78	47	62	84	<b>55</b>	79
Constit: Dis : (other) ...	40	28	23	35	39	60	37	43	41	45	<b>39</b>	38
Prem: Birth.....	121	115	144	124	113	105	128	142	134	143	<b>127</b>	120
Devel: Dis: & Cong: Def: ..	20	25	20	23	25	21	11	15	19	16	<b>19</b>	18
Old Age .....	119	123	145	175	203	216	257	249	177	213	<b>188</b>	174
Apoplexy and Paralysis...	160	161	161	192	166	172	182	180	180	195	<b>175</b>	160
Epilepsy .....	16	18	16	27	18	27	11	21	19	17	<b>19</b>	20
Convulsions .....	178	190	189	203	217	182	143	153	149	135	<b>174</b>	153
Brain & Nerv: Dis:(other)	180	162	161	182	173	107	58	85	51	55	<b>121</b>	98
Heart Diseases .....	194	220	241	251	224	249	261	222	242	278	<b>238</b>	235
Croup .....	52	36	32	46	56	51	28	24	30	30	<b>38</b>	16
Bronchitis .....	524	559	629	556	569	502	660	737	524	523	<b>578</b>	384
Pneumonia .....	317	350	334	416	413	375	743	588	584	470	<b>459</b>	476
Lung & Respr: Dis:(other)	54	54	41	72	83	63	70	127	104	103	<b>77</b>	71
Teething .....	32	7	1	2	2	12	37	61	45	27	<b>23</b>	41
Diges: Org: Dis: .....	168	151	171	169	172	181	219	161	196	217	<b>180</b>	177
Urinary Org: Dis: .....	75	68	99	72	96	83	86	71	79	63	<b>79</b>	68
Parturition .....	30	33	33	35	36	39	25	25	24	28	<b>31</b>	30
Gener: Orgs: Dis:.....	6	6	7	13	18	7	3	4	1	4	<b>7</b>	5
Other Local Diseases.....	13	33	43	35	30	27	36	30	27	16	<b>29</b>	32
Accident .....	91	98	110	123	112	111	123	144	132	131	<b>117</b>	137
Homicide .....	2	1	1	3	9	2	2	...	1	1	<b>2</b>	2
Suicide .....	8	7	15	14	25	13	16	14	19	8	<b>14</b>	16
Atrophy .....	218	174	214	209	242	243	323	303	266	305	<b>250</b>	255
Ill-defined Causes .....	102	48	49	47	56	72	118	128	108	123	<b>85</b>	89

1894.	0 - 1 Years.					1—5 Years.					5—20 Years.				
	Regent Rd.	Greengate.	Pendleton.	Broughton.	Borough.	Regent Rd.	Greengate.	Pendleton.	Broughton.	Borough.	Regent Rd.	Greengate.	Pendleton.	Broughton.	Borough.
All Causes .....	562	238	260	162	1222	339	135	188	107	769	115	46	88	39	288
Small Pox .....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Measles.....	23	6	4	2	35	49	15	27	15	106	1	...	1	1	3
Scarlet Fever .....	1	1	...	...	2	30	13	28	8	79	13	3	8	...	24
Typhus .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough .....	28	10	6	8	52	38	15	8	17	78	5	3	1	1	10
Diphtheria .....	...	1	1	...	2	18	4	13	2	37	2	...	8	1	11
Ill-defined Fever.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric Fever .....	...	...	...	1	1	1	3	3	1	8	6	2	5	3	16
Simple Cholera .....	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Diarrhoea, Dysent :.....	59	22	13	7	101	16	10	5	1	32	1	...	2	...	3
Venereal Affections .....	13	4	6	1	24	3	...	1	...	4	...	...	...	...	...
Erysipelas .....	1	...	...	1	2	...	...	1	...	1	...	...	...	...	...
Pyæmia.....	...	...	...	...	...	...	...	...	...	...	3	...	1	...	4
Puerperal Fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Zymotics .....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Parasitic Diseases .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dietic Dis : Intemp : .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rheumatic Fever .....	...	...	...	...	...	...	...	...	...	...	2	1	2	...	5
Cancer .....	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...
Tabes Mesent :.....	16	3	2	2	23	7	3	2	1	13	2	...	2	...	4
Tubercul : Mening:.....	12	10	9	5	36	29	14	23	5	71	9	3	3	3	18
Phthisis .....	1	2	2	...	5	1	1	...	1	3	10	9	10	8	37
Scrofula .....	13	5	8	5	31	6	7	9	5	27	3	5	4	2	14
Constit : Dis : (other).....	1	2	1	...	4	3	...	4	2	9	1	...	1	1	3
Prem : Birth.....	55	20	23	22	120	...	...	...	...	...	...	...	...	...	...
Devel Dis : & Cong : Def :...:	6	3	3	5	17	...	...	1	...	1	...	...	...	...	...
Old Age.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Apoplexy and Paralysis...	1	...	...	...	1	...	1	...	1	2	...	...	...	...	...
Epilepsy .....	...	...	...	...	...	...	...	...	...	...	2	1	...	2	5
Convulsions .....	52	32	31	16	131	10	2	2	5	19	1	...	2	...	3
Brain & Nerv : Dis:(other)	3	2	8	2	15	4	1	3	3	11	6	1	1	3	11
Heart Diseases .....	...	...	...	...	...	...	...	...	...	...	10	4	7	2	23
Croup .....	2	1	2	...	5	2	3	...	3	8	3	...	...	...	3
Bronchitis .....	62	15	24	14	115	25	4	9	7	45	1	...	2	1	4
Pneumonia .....	49	17	28	20	114	62	21	23	14	120	13	2	12	3	30
Lung& Respir: Dis:(other)	1	1	4	...	6	7	1	3	1	12	2	1	2	...	5
Teething .....	13	2	2	5	22	6	3	6	4	19	...	...	...	...	...
Diges : Org : Dis : of .....	25	16	7	7	55	5	5	5	...	15	3	2	4	...	9
Urinary Org : Dis : of .....	...	...	...	...	...	...	1	2	...	3	3	...	1	...	4
Parturition, dis : of .....	1	...	...	...	1	...	...	...	...	...	1	1	...	...	2
Gener : Orgs : dis : of .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Local dis :.....	2	1	3	1	7	...	1	1	...	2	4	2	1	4	11
Accident .....	9	8	11	3	31	12	3	3	4	22	6	5	7	3	21
Homicide .....	1	...	1	...	2	...	...	...	...	...	...	...	...	...	...
Suicide .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Atrophy .....	96	48	58	34	236	4	3	5	6	18	...	...	...	...	...
Ill-defined Causes .....	14	6	3	1	24	1	...	1	1	3	1	1	1	1	4



20—40 Years.					40—60 Years.					60 Years and Upwards.					Borough All Ages for year.
Regent Rd.	Greengate.	Pendleton.	Broughton.	Borough.	Regent Rd.	Greengate.	Pendleton.	Broughton.	Borough.	Regent Rd.	Greengate.	Pendleton.	Broughton.	Borough.	
221	93	146	89	549	306	153	178	121	758	284	144	162	135	725	4311
...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	2
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	144
1	...	2	...	3	2	...	...	...	2	...	...	...	...	...	110
...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	140
...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	51
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	8	8	3	31	3	...	3	1	7	...	...	...	...	...	63
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	1	1	2	6	1	2	...	9	147
1	...	...	1	2	...	...	...	...	...	...	...	...	...	...	30
...	...	...	...	...	2	...	...	...	2	1	...	1	1	3	8
1	...	1	...	2	1	1	...	...	2	1	...	...	...	1	9
5	...	3	2	10	...	...	1	...	1	...	...	...	...	...	11
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	1	...	6	4	1	5	...	10	...	...	1	...	1	17
1	...	...	1	2	1	1	1	...	3	1	...	...	1	2	12
4	1	4	5	14	25	9	17	18	69	13	4	16	9	42	126
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	40
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	125
76	30	55	31	192	46	29	30	23	128	5	6	3	...	14	379
2	1	2	1	6	...	...	...	1	1	...	...	...	...	...	79
3	1	1	1	6	5	4	2	...	11	3	...	...	2	5	38
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	120
...	...	...	...	...	2	1	...	1	4	62	47	36	25	170	18
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	174
4	2	3	...	9	26	7	13	12	58	34	18	22	16	90	160
1	2	1	...	4	3	1	3	1	8	1	1	...	1	3	20
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	153
7	1	3	2	13	4	5	9	4	22	6	6	7	7	26	98
21	8	11	6	46	37	15	25	13	90	32	8	19	17	76	235
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
9	4	1	1	15	40	23	12	10	85	53	28	23	16	120	384
25	10	19	11	65	35	26	20	8	89	25	8	13	12	58	476
4	5	2	4	15	7	6	5	1	19	3	2	2	7	14	71
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	41
7	2	9	8	26	20	6	12	10	48	9	2	3	10	24	177
9	4	...	1	14	11	8	8	3	30	5	3	5	4	17	68
4	6	9	4	23	4	...	...	...	4	...	...	...	...	...	30
1	...	...	...	1	3	...	...	1	4	...	...	...	...	...	5
4	...	...	1	5	...	1	1	1	3	1	2	...	1	4	32
8	5	8	4	25	11	5	4	2	22	8	3	2	3	16	137
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
3	1	1	...	5	3	1	2	2	8	2	1	...	...	3	16
...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	255
3	1	2	1	7	10	3	4	8	25	13	4	6	3	26	89



TABLE F3.

DEATHS REGISTERED IN SALFORD, FROM ALL CAUSES DURING THE YEAR 1894.

DISEASES.	AGES IN YEARS.																							Total.	1 to 5	5 to 20	20 to 40	40 to 60	60 and upwards
	AGES IN YEARS.																												
	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 and upwards.							
I. SPEC: FEBRILE, OR ZYMOTIC DISEASES .....	221	172	91	44	38	51	10	11	17	16	9	8	5	4	6	2	3	5	1	2	...	2	718	345	72	50	17	13	
II. PARASITIC DISEASES .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17	...	...	6	10	1	
III. DIETIC DISEASES .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	799	124	81	220	212	63	
IV. CONSTITUTIONAL DISEASES .....	99	71	28	14	11	27	26	28	40	56	62	62	64	43	56	49	25	17	16	5	39	25	312	1	...	...	4	170	
V. DEVELOPMENTAL DIS: .....	137	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17	1966	256	110	236	460	432	
VI. LOCAL DISEASES.....	472	157	58	27	14	47	34	29	41	51	69	75	94	124	133	109	139	125	88	57	14	9	155	22	21	30	30	19	
VII. DEATHS FROM VIOLENCE.	33	11	4	2	5	11	6	4	9	5	9	7	16	4	6	4	6	4	3	4	1	1	...	...	...	...	...	...	
VIII. DEATHS FROM ILL-DEFINED & NOT SPECIFIED CAUSES.	260	13	5	1	2	3	1	...	1	2	2	2	8	7	5	5	6	12	3	6	...	...	344	21	4	7	25	27	
TOTALS.....	1222	425	186	88	70	139	77	72	108	131	153	157	189	185	210	174	194	193	156	113	40	29	4311	769	288	549	758	725	
I.-Zymotic Diseases.																													
I. MIASMATIC DISEASES.																													
Sm: Pox { Vaccinated .....	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
Unvaccinated .....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
No Statement .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Measles .....	35	58	29	9	10	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	144	106	3	...	...	...	
Scarlet Fever .....	2	15	24	21	19	21	1	2	3	...	...	...	...	1	1	...	...	...	...	...	...	110	79	24	3	2	...	...	
Typhus Fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
Whooping Cough .....	52	49	21	4	4	10	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	140	78	10	...	...	...	
Diphtheria .....	2	13	13	8	3	7	3	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	51	37	11	1	...	...	
Simp: Contd: Fever.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Enteric Fever .....	1	4	1	1	2	6	3	7	13	10	4	4	2	1	4	...	...	...	...	...	...	...	63	8	16	31	7	...	
Miasm: Dis: (other) .....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
2. DIARRHEAL DISEASES.																													
Simp: Cholera .....	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
Diarrhoea, Dysentery .....	101	29	3	...	...	2	1	...	...	...	...	...	...	...	1	1	1	3	1	2	...	2	147	32	3	...	2	9	
3. MALARIAL DISEASES.																													
Remittent Fever.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Ague .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

#### 4. ZOOGENOUS DISEASES.

Cow Pox, Effects of Vaccin : ..  
Hydroph : Gland : Splenic Fev :

## 5. VENEREAL DISEASES.

Syphilis .....  
Gonorrhœa, Str: Ureth: .....

## 6. SEPTIC DISEASES.

Erysipelas .....  
Pyæmia Septicæmia .....  
Puerperal Fever.....

## III.—Parasitic Diseases.

Veg: Par: D: (Thrush) .....  
An: Par: D: Wrm: Hydtd:

### III.—Dietic Diseases.

Starv: Want Breast Milk .....	3693
Scurvy .....	3693
Chr: Alcoholism .....	3693
Delir: Trem: .....	3693

#### IV.-Constitutional Diseases.

Rheum : Fev : Rheum : Heart  
Rheum : Chronic  
Gout  
Rickets  
Cancer, Malignant Dis :  
Tabes Mesenterica  
Tuberc : Mening : Hydroceph :  
Phthisis  
Tuberc : Dis : Scrofula  
Purpura, Hæmor : Diathesis  
Anæmia, Chlorosis, Leucocy :  
Diabetes Mellitus  
Constitutional Dis : (other)

## V.-Developmental Diseases.

Premature Birth.....	.....
Atelectasis.....	.....
Malform : Congen : Defects .....	.....
Old Age .....	.....

TABLE F3.—(Continued.)

DISEASES.	AGES IN YEARS.																						TOTAL.	1 to 5	5 to 20	20 to 40	40 to 60	60 and upwards.
	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 and upwards.						
VI.—Local Diseases.																												
1. Dis: OF NERVOUS SYSTEM.																												
Brain and Mem: Inflamm: .....	6	2	1	1	...	2	1	3	2	1	...	1	1	1	3	2	2	...	...	2	...	...	...	4	7	4	...	
Apoplexy and Paralysis.....	1	1	1	...	...	...	...	...	...	1	4	4	15	10	15	18	27	26	18	15	3	1	...	160	58	90	...	
Insanity, Gen: Par: Insane....	...	...	...	...	...	...	...	...	...	2	2	2	4	4	1	...	8	3	4	2	2	...	...	...	...	...	...	
Epilepsy .....	...	...	...	...	...	2	1	2	...	2	1	1	3	2	3	...	...	...	1	2	...	...	...	...	...	...	...	
Convulsions .....	131	11	6	1	1	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20	9	19	3	
Laryng: Strid: (Spasm Glot:)	9	2	2	...	2	3	...	...	1	...	...	2	1	1	1	...	1	1	...	...	...	...	18	...	...	...	...	
Sp: Crd: D: Parapl: Par: Agit:	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	...	...	...	
Nervous Dis: (other) .....	...	1	...	...	...	1	1	...	...	...	...	...	...	1	1	1	...	1	...	...	...	...	7	3	3	2	1	
2. Dis: OF ORG: SPECIAL SENSE.																												
Ear—Eye—Nose—Dis:.....	4	...	1	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	1	3	...	...	
3. Dis: OF CIRCULATORY SYS:																												
Pericarditis .....	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	1	...	...	1	
Endocarditis (Acute) .....	...	...	...	...	...	...	5	...	7	4	5	3	7	8	9	7	8	7	3	1	1	1	...	3	31	21	...	
Valvular Dis: .....	...	...	...	...	...	...	...	6	4	4	9	8	10	16	15	8	19	15	8	6	...	...	76	...	49	50	...	
Heart Diseases (other) .....	...	...	...	...	...	3	8	...	...	...	1	1	1	3	2	1	1	1	...	...	...	...	141	...	2	...	...	
Aneurism .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	...	7	...	...	
Embolism, Thrombosis .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	1	1	...	...	...	...	4	...	2	...	...	
Blood Vessels (other Dis: of).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	
4. Dis: OF RESPIRATORY SYS:																												
Laryngitis .....	1	3	3	2	3	2	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	16	...	2	...	...	
Croup .....	5	4	1	3	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16	...	3	...	...	
Asthma, Emphysema.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2	1	1	...	...	...	6	...	...	...	...	
Bronchitis .....	115	32	9	3	1	2	1	1	2	3	7	3	10	17	32	26	36	38	29	11	3	3	384	...	15	85	120	
Pneumonia .....	114	70	30	14	6	14	9	7	10	13	19	23	22	29	22	16	23	15	8	10	1	1	476	...	45	65	58	
Pleurisy .....	...	...	...	...	...	...	...	1	...	...	...	...	...	1	4	2	1	1	...	...	...	11	...	30	1	7	2	
Respiratory Dis: (other) .....	5	...	1	...	...	1	1	...	4	3	1	4	1	4	4	1	1	2	2	...	...	1	38	...	2	10	8	







## SUMMARY OF TABLE F3, 1893 AND 1894.

	No. of Deaths, 1893.	No. of Deaths, 1894.
<b>I.—Specific Febrile, or Zymotic Diseases :</b>		
1. Ordinary Zymotic Diseases .....	398	512
2. Diarrhoeal Diseases .....	453	148
3. Malarial „ .....	...	...
4. Zoogenous „ .....	...	...
5. Venereal „ .....	25	30
6. Septic „ .....	38	28
<b>II.—Parasitic Diseases .....</b>	2	...
<b>III.—Dietic Diseases.....</b>	23	17
<b>IV.—Constitutional Diseases .....</b>	855	799
<b>V.—Developmental Diseases .....</b>	372	312
<b>VI.—Local Diseases :</b>		
1. Diseases of Nervous System.....	402	431
2. Diseases of Organs of Special Sense .....	6	8
3. Diseases of Circulatory System .....	278	235
4. Diseases of Respiratory System .....	1126	947
5. Diseases of Digestive System .....	244	218
6. Diseases of Lymphatic System .....	...	1
7. Diseases of Gland-like Organs of uncertain use .....	1	1
8. Diseases of Urinary System.....	63	68
9. Diseases of Reproductive System :		
(a) Diseases of Organs of Generation.....	4	5
(b) Diseases of Parturition .....	28	30
10. Diseases of Bones and Joints .....	9	19
11. Diseases of Integumentary System.....	...	3
<b>VII.—Violence :</b>		
1. Accident or Negligence.....	131	137
2. Homicide .....	1	2
3. Suicide.....	8	16
<b>VIII.—Ill-defined and not specified causes .....</b>	428	344
<b>TOTAL .....</b>	4895	4311



MORTALITY FROM SPECIAL DISEASES—*Continued.*

Brought forward from page 24 ..	215	...	2
Phthisis and other tuberc: diseases.	71	...	—
Premature birth ... ..	7	...	—
Brain and nervous diseases .....	58	...	—
Heart diseases .....	3	...	—
Respiratory diseases.....	205	...	—
Urinary diseases .....	11	...	—
Atrophy and other ill-defined causes	—	...	9
All other causes .....	—	...	27
	570		38
Balance of diminution in 1894...	532		

This diminution is very favourable when compared with the excess of 91 deaths in 1893, that of 236 in 1892, of 324 in 1891, and of 340 in 1890.

Zymotic  
Mortality

**Mortality from certain Zymotic Diseases.**—The following tables show the annual rates of mortality per 1,000 of population, in respect of certain zymotic diseases in Salford, London, the 33 great English towns, and England and Wales. In previous years, down to 1892, the comparison was made with only 28 great English towns, but since, the Registrar-General has, for further comparison, added five other large towns to the list, it has been necessary to enlarge the tables, until a clear five-year period of comparison with the 33 towns has been established. Thus, the mortality-rates for the past five years relating to the old 28 great English towns are inserted, and the rates for the 33 towns for a period of three years are given in addition.

It will be observed, from these several tables, that the rates of mortality in 1894 are below the mean Salford rates for the preceding five years in respect of diphtheria, whooping-cough, measles, diarrhoea, typhus-fever, enteric and continued-fevers. In the case of scarlet-fever only is the rate above the mean. The Salford rates are nearly all above the rates with which they are compared: but there are one or two important exceptions which ought not to be overlooked. For instance, the Salford diphtheria rate for 1894 is well below the yearly and mean rates for London and the other specified rates for 1894; and the diarrhoea rate is below the mean of the twenty-eight great English towns. There is indeed improvement in Salford itself, and it may be hoped that in time it may bear more favourable comparisons with other towns than it has done for some years past.

## SCARLET FEVER MORTALITY. RATES PER 1,000 OF THE POPULATION.

Zymotic  
Mortality

	1889.	1890.	1891.	1892.	1893.	Mean.	1894.
England and Wales...	0·23	0·23	0·17	0·19	0·23	<b>0·21</b>	0·16
28 Great English Towns	0·30	0·31	0·18	0·22	0·22	<b>0·25</b>	0·18
33       "       "				0·25	0·29		0·21
London .....	0·18	0·19	0·14	0·28	0·37	<b>0·23</b>	0·22
<b>Salford</b> .....	<b>0·52</b>	<b>0·95</b>	<b>0·18</b>	<b>0·40</b>	<b>0·19</b>	<b>0·45</b>	<b>0·53</b>

## DIPHTHERIA MORTALITY. RATES PER 1,000 OF THE POPULATION.

	1889.	1890.	1891.	1892.	1893.	Mean.	1894.
England and Wales ...	0·19	0·18	0·17	0·20	0·30	<b>0·21</b>	0·28
28 Great English Towns	0·26	0·24	0·21	0·16	0·19	<b>0·21</b>	0·20
33       "       "				0·68	0·43		0·38
London ... .	0·37	0·31	0·32	0·44	0·76	<b>0·44</b>	0·61
<b>Salford</b> .....	<b>1·06</b>	<b>1·05</b>	<b>0·39</b>	<b>0·26</b>	<b>0·23</b>	<b>0·60</b>	<b>0·25</b>

## WHOOPIING COUGH MORTALITY. RATES PER 1,000 OF THE POPULATION.

	1889.	1890.	1891.	1892.	1893.	Mean.	1894.
England and Wales ...	0·40	0·45	0·44	0·43	0·33	<b>0·41</b>	0·32
28 Great English Towns	0·48	0·59	0·63	0·55	0·41	<b>0·53</b>	0·47
33       "       "				0·57	0·48		0·48
London .....	0·40	0·73	0·67	0·58	0·54	<b>0·58</b>	0·48
<b>Salford</b> .....	<b>0·30</b>	<b>0·93</b>	<b>0·91</b>	<b>0·96</b>	<b>0·48</b>	<b>0·71</b>	<b>0·68</b>

## MEASLES MORTALITY. RATES PER 1,000 OF THE POPULATION.

	1889.	1890.	1891.	1892.	1893.	Mean.	1894.
England and Wales ...	0·49	0·42	0·42	0·45	0·36	<b>0·43</b>	0·38
28 Great English Towns	0·67	0·63	0·51	0·57	0·51	<b>0·58</b>	0·46
33       "       "				0·68	0·44		0·63
London .....	0·53	0·73	0·42	0·80	0·39	<b>0·57</b>	0·76
<b>Salford</b> .....	<b>1·13</b>	<b>0·52</b>	<b>0·65</b>	<b>1·52</b>	<b>0·45</b>	<b>0·85</b>	<b>0·70</b>

## DIARRHŒA MORTALITY. RATES PER 1,000 OF THE POPULATION.

	1889.	1890.	1891.	1892.	1893.	Mean.	1894.
England and Wales ...	0·61	0·56	0·45	0·48	0·46	<b>0·51</b>	0·35
28 Great English Towns	0·82	0·77	0·65	0·75	1·45	<b>0·89</b>	0·54
33       "       "				0·71	1·22		0·51
London .....	0·62	0·61	0·58	0·59	1·09	<b>0·70</b>	0·42
<b>Salford</b> .....	<b>1·75</b>	<b>1·30</b>	<b>0·89</b>	<b>0·98</b>	<b>2·20</b>	<b>1·42</b>	<b>0·72</b>

Zymotic  
Mortality

TYPHUS FEVER MORTALITY. RATES PER 1,000 OF THE  
POPULATION.

	1889	1890.	1891.	1892.	1893.	Mean.	1894.
London .....	0'00	0'00	0'00	0'00	0'00	0'00	0'00
<b>Salford</b> .....	<b>0'01</b>	<b>0'02</b>	<b>0'00</b>	<b>0'00</b>	<b>0'01</b>	<b>0'01</b>	<b>0'00</b>

ENTERIC FEVER MORTALITY. RATES PER 1,000 OF THE  
POPULATION.

	1889.	1890.	1891.	1892.	1893.	Mean.	1894.
London .....	0'12	0'13	0'13	0'10	0'16	0'13	0'15
<b>Salford</b> .....	<b>0'58</b>	<b>0'42</b>	<b>0'38</b>	<b>0'39</b>	<b>0'45</b>	<b>0'45</b>	<b>0'31</b>

TOTAL CONTINUED FEVER MORTALITY. RATES PER 1,000  
OF THE POPULATION.

	1889.	1890.	1891.	1892.	1893.	Mean.	1894.
England and Wales ...	0'18	0'18	0'18	0'15	0'23	0'18	0'18
28 Great English Towns	0'20	0'19	0'20	0'18	0'29	0'21	0'20
33       "       "				0'15	0'24		0'19
London .....	0'14	0'14	0'14	0'11	0'16	0'14	0'15
<b>Salford</b> .....	<b>0'60</b>	<b>0'44</b>	<b>0'38</b>	<b>0'41</b>	<b>0'49</b>	<b>0'46</b>	<b>0'31</b>

Uncertified  
Deaths

**Uncertified Deaths.**—Of the 4,311 deaths which occurred in the year 1894, at all ages and from all causes, 3,923 were duly certified by registered medical practitioners, 257 were certified by the Coroner, and 122 were not certified either by medical practitioners or by the Coroner. The number of uncertified deaths was 40 less than in the year 1893, and as in that year the number of such deaths was 17 fewer than in 1892, it will be seen that there is distinct evidence of improvement going on in the matter of death-certification. The proportion of uncertified deaths to the total deaths during 1894 was 2'8 per cent, as compared with 3'6, the average percentage for the preceding ten years, 1884–93. As compared with the year 1893, all the districts show improvement, but this is most marked in the Regent Road and Pendleton districts, the the rate of non-certification was always unduly high. The improvement is altogether pleasing, but I think it none the less important than no death should be allowed to pass uncertified. This might be provided against by the enforcement of a post-mortem examination in every case where certification had not been granted by the Coroner, on information satisfactory to him, or by registered medical practitioners who were in attendance during illness.



TABLE G.

CERTIFICATION OF THE CAUSES OF DEATH IN THE BOROUGH OF  
SALFORD, AND ITS FOUR REGISTRATION SUB-DISTRICTS,  
IN THE YEAR 1894.

	Total Deaths.	Certified by		Not Certified.	Proportion per cent. of Total Deaths.		
		Registered Medical Practitioners.	Coroner.		Certified by		Not Certified.
					Registered Medical Practitioners.	Coroner.	
Borough .....	4311	3932	257	122	91·2	6·0	2·8
Regent Road District	1827	1684	89	54	92·2	4·9	2·9
Greengate .....	809	673	108	28	83·2	13·3	3·5
Pendleton .....	1022	954	39	29	93·4	3·8	2·8
Broughton .....	653	621	21	11	95·1	3·2	1·7

CORRESPONDING DATA FOR THE TEN YEARS 1884-93.

<b>Borough</b> .....	47667	43633	2295	1739	91·6	4·8	3·6
Regent Road District	20143	18469	922	752	91·7	4·6	3·7
Greengate .....	9369	8338	654	377	89·0	7·0	4·0
Pendleton .....	11429	10479	502	448	91·7	4·4	3·9
Broughton .....	6726	6347	217	162	94·4	3·2	2·4

TABLE OF DEATHS DURING THE YEAR 1894, IN THE URBAN SANITARY  
AND SHOWING ALSO THE POPULATION OF SUCH LOCALITIES,

Localities.	Population at all ages.		Registered Births.	Mortality from all causes at subjoined ages.						
	Census, 1891	Estimated to the middle of 1894.		At all ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.
<b>Total for Borough, exclu- sive of Public Institutions</b>	196397	205828	6962	3610	1184	641	154	130	1074	427
Deaths in Salford Institutions.	Union Infirmary .....	Beds. 634 Beds. 634	...	392	21	22	11	21	226	91
	Workhouse .....	908 908	79	22	6	2	...	...	5	9
	Ladywell Sanatorium ...	... 184	...	137	3	78	21	20	15	...
	Mode Wheel Hos- pital... ..	... 50	...	2	1	...	...	...	1	...
	Royal Hospital and Dispensary .....	125 125	...	131	9	18	20	11	67	6

The subjoined numbers have also to be taken into account

Deaths occurring outside Salford among persons belonging thereto.		Beds.	Beds.								
	Children's Hospital, Pendlebury .....	160	160	...	30	5	12	13	...	...	...
	Manchester Royal Infirmary .....	315	315	...	28	1	...	1	2	23	1
	St. Mary's Hospital...	...	...	...	3	2	...	1	...	...	..
	Workhouse, M'chester	...	...	...	1	...	...	...	...	1	...
	Ear Hospital .....	...	...	...	...	...	...	...	...	...	...
Deaths occurring in Salford among persons not belong- ing to the town .....					45	10	4	5	4	19	3

The subjoined numbers are the **Corrected Deaths** in the

Borough of Salford	Pop. 1893	Pop. 1894									
	201058	205828									
Registration Sub-Districts.	Regent Road .....	80405	82687	2826	1827	562	339	87	62	572	205
	Greengate .....	30707	30707	1178	809	238	135	34	38	262	102
	Pendleton .....	51427	52845	1885	1022	260	188	67	51	338	118
	Broughton .....	38522	39589	1152	653	162	107	28	29	221	106



DISTRICT OF SALFORD, CLASSIFIED ACCORDING TO DISEASES, AGES, AND LOCALITIES,  
AND THE BIRTHS THEREIN DURING THE YEAR.

Mortality from subjoined causes, distinguishing deaths of children  
under five years of age.

	Small-pox.	Measles.	Scarlet-fever.	Diphtheria.	Croup.	Whooping Cough	Typhus.	Enteric or Typhoid	Other or Doubtful	Diarrhoea and Dysentery.	Engl. Cholera.	Rheumatic Fev.	Erysipelas	Pyæmia.	Puerperal Fever.	Ague.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Injuries.	Other Diseases.
Under 5...	...	128	24	30	13	11	5	...	6	...	129	...	3	...	...	...	8	378	...	39	952
5 upwards	...	3	12	10	3	9	...	30	...	9	1	12	4	5	10	...	284	403	185	66	739
Under 5...	...	3	...	...	...	15	...	...	...	2	...	...	...	...	...	...	...	12	...	...	11
5 upwards	...	...	...	...	...	1	...	...	...	3	...	...	...	2	...	...	85	52	32	...	174
Under 5...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
5 upwards	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	2	...	...	10
Under 5...	...	11	59	7	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	1
5 upwards	...	...	17	2	...	...	1	24	...	...	...	...	1	...	1	...	1	4	...	...	5
Under 5...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5 upwards	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Under 5...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	4	...	15	6
5 upwards	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	3	14	11	36	39

in judging of the mortality of the Sanitary District.

Under 5...	...	...	...	1	...	...	...	...	...	4	...	...	...	...	...	...	...	4	...	...	8
5 upwards	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	1	...	10
Under 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
5 upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	5	7	13
Under 5...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
5 upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Under 5...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5 upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Under 5...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5 upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Under 5...	...	1	3	...	...	...	...	...	...	3	...	...	...	...	...	...	...	4	...	...	3
5 upwards	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	10	18

Borough, and in the four Sub-Registration Districts thereof.

Under 5...	1	14	18	39	13	130	...	9	...	133	...	...	3	...	...	...	8	394	...	55	984
5 upwards	1	3	29	12	3	10	1	54	...	14	1	12	5	9	11	...	371	477	235	100	972
Under 5...	1	72	31	18	4	66	...	1	...	75	...	...	1	...	...	...	2	199	...	22	409
5 upwards	1	1	16	2	3	5	...	21	...	7	1	5	3	6	5	...	137	206	100	41	366
Under 5...	...	21	14	5	4	25	...	3	...	32	...	...	...	...	...	...	3	57	...	11	198
5 upwards	...	...	3	...	...	3	1	10	...	1	...	2	...	1	...	...	74	104	35	21	181
Under 5...	...	31	28	14	2	14	...	3	...	18	...	...	1	...	...	...	2	84	...	15	236
5 upwards	...	1	10	8	...	1	...	16	...	5	...	3	1	2	4	...	98	105	62	24	234
Under 5...	...	17	8	2	3	25	...	2	...	8	...	...	1	...	...	...	1	54	...	7	141
5 upwards	...	1	...	2	...	1	...	7	...	1	...	2	1	...	2	...	62	62	38	14	191



## YEAR 1894.

METEOROLOGY, AND REGISTERED DEATHS FROM ALL CAUSES, AND FROM CERTAIN  
PREVALENT DISEASES IN EACH WEEK OF THE YEAR.

Week.	Temperature of the Air.			Air Pres- sure.	Horizontal Movement of Air in Miles p. hour.	Mean Humidity. Complete Saturation =100	Rainfall in Inches.	Deaths registered from										
Date of ending.	Highest during the Week.	Lowest during the Week.	Mean Temperature.	Extreme range of Barometric changes.				All Causes.	Smallpox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough	Typhus Fever.	Enteric Fever.	Diarrhoea.	Respiratory. Diseases.	Phthisis.
1894.	°	°	°															
Jan. 6	44.5	16.5	31.9	1.016	1.2	87	0.020	89 ...	6	1 ...	4 ...	3	2	23	5			
13	54.0	20.8	40.6	0.364	2.5	93	0.285	108 ...	5	3	2	2 ...	1	4	33	6		
20	51.1	39.2	45.2	0.629	2.6	92	0.349	87 ...	6		3	8 ...	1	...	23	5		
27	53.0	28.0	41.9	0.470	3.6	86	0.250	119	1 ...	3	3	5 ...	1	2	36	11		
Feb. 3	54.7	33.4	41.3	0.690	2.0	90	0.950	81 ...	3 ...	3	2 ...	...	...	17	9			
10	56.1	37.8	46.5	0.791	5.1	92	1.420	75 ...	1 ...	2	4 ...	1		17	5			
17	52.6	34.0	41.7	0.809	...	92	1.275	90 ...	4	1	1	6 ...	1	1	18	11		
24	48.0	27.0	35.3	0.972	...	90	0.500	73 ...	5 ...	3	5	...	...	2	22	7		
Mar. 3	55.5	35.8	44.0	0.626	...	89	0.910	100 ...	7 ...	...	1 ...	3	1	27	10			
10	52.7	33.5	42.7	0.856	...	91	1.390	87 ...	3	2	2	2 ...	2	2	16	10		
17	50.4	32.0	41.2	1.177	...	86	0.780	97 ...	2	1	...	2 ...	2	1	24	9		
24	65.1	32.8	45.6	0.176	...	89	...	99 ...	5	2 ...	4 ...	1	...	29	5			
31	68.0	34.8	51.3	0.458	0.4	69	0.100	102 ...	5	2	2	5	...	...	2	25	6	
April. 7	66.8	41.2	50.4	0.235	0.9	80	0.200	108 ...	7	1 ...	5 ...	...	1	26	7			
14	72.3	42.0	52.8	0.275	1.3	75	0.200	74 ...	3	2 ...	3 ...	2	...	18	7			
21	63.8	38.0	50.6	0.819	0.5	74	0.530	89 ...	3	3 ...	7 ...	3	2	21	8			
28	65.3	35.0	49.4	0.427	0.9	73	0.370	64 ...	2	1 ...	4 ...	1	...	11	6			
May 5	59.5	39.8	49.0	0.568	1.3	73	0.470	90 ...	3	4	4	5 ...	1	1	16	9		
12	59.8	43.0	50.4	0.332	1.5	80	0.960	92 ...	5	5	1	2 ...	1	3	20	5		
19	64.0	42.0	51.7	0.398	0.8	74	0.345	86 ...	5	2	1	3 ...	1	1	23	5		
26	65.8	35.3	46.9	0.569	0.9	67	...	112 ...	5	4	1	5 ...	2	1	20	9		
June 2	67.8	40.7	49.7	0.327	0.5	75	0.625	85 ...	6	7 ...	2 ...	1	1	17	11			
9	65.2	42.7	54.1	0.248	0.3	84	1.760	82 ...	4	3 ...	1 ...	1	...	24	10			
16	69.4	48.2	55.6	0.323	0.8	78	0.680	68 ...	5	1	...	4 ...	1	3	14	3		
23	71.7	45.3	57.5	0.525	1.5	88	0.224	65	1	2	3 ...	4 ...	2	2	11	3		
30	85.8	53.8	63.3	0.461	0.6	63	...	95 ...	7	3 ...	5	...	2	2	14	6		
July 7	86.6	52.3	66.6	0.371	1.2	61	0.430	93	1	5	3	1	3 ...	...	5	27	5	
14	70.8	49.8	59.6	0.674	1.5	73	0.270	87 ...	4	5 ...	2 ...	1	7	26	6			
21	70.8	51.8	57.3	0.333	1.9	84	1.410	87 ...	6	3	1	3 ...	...	3	25	10		
28	78.2	54.1	62.5	0.212	1.9	71	0.650	80 ...	4 ...	2	3	...	1	10	12	6		
Aug. 4	79.0	51.8	62.5	0.680	1.9	75	1.360	74 ...	2 ...	1	2 ...	2	9	24	8			
11	69.1	53.0	59.5	0.443	1.9	76	0.840	79 ...	...	1 ...	...	...	2	14	28	13		
18	65.7	51.3	57.3	0.688	2.5	75	0.640	92 ...	2	2 ...	...	...	4	14	20	6		
25	68.8	48.4	56.7	0.421	1.7	75	1.260	84 ...	3	1	1	5	...	1	8	21	7	
Sep. 1	67.1	52.9	58.4	0.314	0.5	81	0.020	67 ...	...	1	1	1	...	7	21	9		
8	61.8	46.2	53.1	0.154	1.4	72	0.081	64 ...	1 ...	1	1	1 ...	1	3	12	5		
15	65.1	44.2	54.9	0.198	0.5	75	...	61 ...	1	5	1	2 ...	...	4	16	3		
22	64.3	49.3	56.2	0.512	0.7	74	0.560	78 ...	1	1	2	1	...	1	7	16	7	
29	64.8	39.0	51.9	0.553	0.9	76	0.140	67 ...	1	4	2	2	...	...	12	5		
Oct. 6	61.2	39.5	50.7	0.470	0.7	78	...	74 ...	1	2 ...	...	...	...	6	9	10		
13	63.6	47.5	54.7	0.292	0.6	90	0.380	79 ...	1	3	2	...	...	1	6	9	6	
20	58.8	38.9	45.7	0.667	1.3	81	0.530	61 ...	...	4 ...	...	...	1	1	10	5		
27	59.8	31.6	47.0	0.771	1.9	86	1.820	81 ...	...	5 ...	1	1	2	2	17	8		
Nov. 3	61.0	41.8	51.8	0.456	3.1	87	0.760	85 ...	...	5	2	1	...	3	17	4		
10	57.8	42.7	50.0	0.611	2.3	92	0.820	74 ...	1	1	2	...	...	1	19	12		
17	54.9	38.0	44.7	1.009	2.0	92	0.590	72 ...	1	1	1	2 ...	2	1	13	6		
24	55.3	38.6	47.4	0.414	1.3	96	0.060	65 ...	1	...	...	2 ...	1	...	12	12		
Dec. 1	51.8	35.0	45.9	0.265	0.5	79	...	81 ...	...	3	1	1	...	2	1	25	9	
8	47.5	31.8	39.6	0.650	0.5	92	0.180	75 ...	1	2	1	4 ...	1	2	19	11		
15	54.2	36.3	47.0	0.176	3.2	88	0.180	80 ...	...	2 ...	...	...	5	2	26	4		
22	52.2	35.3	44.1	0.996	2.7	85	0.995	72 ...	...	2	1	3 ...	...	...	22	11		
29	50.7	35.0	43.8	1.286	2.0	86	0.740	85 ...	...	3	2	1	...	...	25	4		

III.

RECORD OF INFECTIOUS DISEASES AND  
MEASURES TAKEN TO PREVENT  
THEIR SPREAD.





# RECORD OF INFECTIOUS DISEASES

## AND MEASURES TAKEN TO PREVENT THEIR SPREAD.

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**Notification of Infectious Diseases.**—The total number of infectious diseases, notified under the Infectious Diseases Notification Act, during the year 1894 was 1,802, as against 2,051 in 1893, 1,572 in 1892, 1,164 in 1891, and 2,177 in 1890. Notification of Disease

The highest and lowest weekly incidences were as follows:—

1894.		Fresh Cases.
Week		
4th.....	Highest number .....	50
8th.....	Lowest „ .....	16
30th.....	„ „ .....	17

Excluding, as in other years, membranous croup and erysipelas from the list of notifiable diseases, for the purpose of comparison with years preceding 1890, the total number of notified cases is reduced to 1,633 cases in 1894, as against 1,850 cases in 1893, 1,459 cases in 1892, 1,101 cases in 1891, and 2,068 in 1890.

The following three tables show, firstly, the total numbers of cases notified in each week of the year ; secondly, the total numbers of cases of notifiable diseases, *exclusive of membranous croup and erysipelas*, during each year since notification came into force within the Borough, together with the yearly rates per 1,000 of population ; and thirdly, the mean weekly incidence of *these particular zymotic diseases*.

## CASES NOTIFIED DURING 1894.

Weeks.	Total.	Small-pox.	ScarletFever.	Diphtheria.	Membranous Croup.	Enteric Fever.	Typhus Fever.	Continued Fever.	Puerperal Fever.	Erysipelas.
1	37	...	22	...	4	8	...	...	1	2
2	26	..	15	4	...	5	...	...	...	2
3	38	...	16	6	1	7	...	...	1	7
4	50	...	23	12	2	9	...	...	1	3
5	35	...	23	2	...	8	...	...	1	1
6	33	...	17	6	1	3	...	...	..	6
7	30	...	16	6	1	5	...	1	...	1
8	16	...	8	3	1	1	...	...	1	2
9	24	...	12	4	...	4	...	...	...	4
10	30	...	15	3	...	7	...	1	...	4
11	22	...	10	3	...	4	...	...	...	5
12	33	...	15	4	3	4	...	1	2	4
13	34	...	14	5	1	9	...	1	...	4
14	40	...	20	3	1	10	...	1	1	4
15	33	2	13	1	...	14	...	1	...	2
16	37	2	18	4	...	9	...	1	...	3
17	38	2	24	5	...	4	...	...	...	3
18	37	...	22	7	1	3	...	...	1	3
19	32	1	20	3	1	4	...	...	...	3
20	36	...	27	2	1	3	...	...	1	2
21	42	...	31	5	1	2	...	1	...	2
22	32	...	20	3	1	4	...	...	...	4
23	36	5	22	3	1	4	...	...	...	1
24	40	8	21	2	1	2	...	...	2	4
25	42	3	29	2	1	2	...	...	1	4
26	39	5	23	6	...	3	...	2	...	...
27	25	...	18	2	...	1	...	...	2	2
28	23	3	11	7	...	2	...	...	...	...
29	29	...	13	4	...	6	...	1	...	5
30	17	1	6	5	...	3	...	1	...	1
31	22	...	11	2	1	5	...	...	...	3
32	35	1	19	...	1	10	...	...	1	3
33	29	...	19	...	2	7	...	...	...	1
34	37	1	20	5	1	9	...	...	...	1
35	33	1	21	3	1	4	...	1	...	2
36	38	...	25	3	3	6	...	...	...	1
37	39	...	22	4	1	11	...	...	...	1
38	42	...	23	5	...	10	...	...	...	4
39	42	...	28	6	1	5	...	...	...	2
40	41	...	32	4	...	4	...	...	...	1
41	30	...	18	2	...	5	...	...	2	3
42	43	...	28	5	2	6	...	...	1	1
43	38	...	22	4	2	6	1	...	...	3
44	37	...	26	3	...	6	...	...	...	2
45	37	...	18	6	...	7	...	...	1	5
46	45	...	33	2	...	7	...	...	...	3
47	46	...	30	2	...	13	...	...	...	1
48	46	...	23	5	...	15	...	...	...	3
49	44	...	24	5	...	15	...	...	...	...
50	26	...	16	4	...	4	...	...	1	1
51	33	...	25	3	1	3	...	1	...	...
52	33	...	16	8	...	8	...	...	...	1
	1802	35	1043	203	39	316	1	14	21	130

Year.	No. of Cases.	Rates per 1,000 of population.	Notification of Disease
1883.....	1,195 .....	or 6.5	
1884.....	1,694 .....	or 9.2	
1885.....	960 .....	or 5.1	
1886.....	1,902 .....	or 10.1	
1887.....	1,889 .....	or 9.9	
1888.....	1,971 .....	or 10.2	
1889.....	2,476 .....	or 12.7	
1890.....	2,068 .....	or 10.5	
1891.....	1,101 .....	or 5.5	
1892.....	1,459 .....	or 7.2	
1893.....	1,850 .....	or 9.1	
Mean for 10 years 1884-1893	<b>1,737</b> .....	or <b>8.9</b>	
1894.....	1,633 .....	or 7.9	

The mean weekly incidence of fresh cases in 1883 was 23

„	„	„	„	„	1884	„	33
„	„	„	„	„	1885	„	18
„	„	„	„	„	1886	„	36
„	„	„	„	„	1887	„	36
„	„	„	„	„	1888	„	35
„	„	„	„	„	1889	„	47
„	„	„	„	„	1890	„	39
„	„	„	„	„	1891	„	21
„	„	„	„	„	1892	„	28
„	„	„	„	„	1893	„	39

Mean for 10 years 1884-93 ..... „ **33.2**

The mean weekly incidence of fresh cases in 1894 „ 31

Among the causes for the rather high numbers of infectious diseases recorded must be reckoned small-pox and scarlet-fever. The number of cases of small-pox in 1894 was not actually very large, but it was much larger than for several years past, with the exception of the year 1893. The number of cases of scarlet-fever showed an increase of 178 cases over the year 1893, and the disease, while very prevalent throughout the year, was markedly epidemic in character from the latter part of the third quarter of the year down to the close of the year. Inasmuch as the number of cases of scarlet-fever notified were identical in 1892 and 1893, it stands that the prevalence of the disease was greater in 1894 than in



Notification of  
Disease

either of the two preceding years. On the other hand, with the exception of scarlet-fever and simple continued fever, the prevalence of all the other notifiable disease was less in 1894 than in the year 1893. This was more particularly the case in respect of enteric-fever. The foregoing tables are, moreover, satisfactory in that they show the rate of infectious sickness per 1,000 of the population to have been, in 1894, below the average for the preceding ten years, and the weekly incidence also below the mean rate for the ten years 1884-93.

The following table shows the total number of cases in each of the four quarters of the year from all notifiable diseases.

CASES NOTIFIED DURING THE YEAR 1894.

Quarters.	Total Cases.	Small-pox.	Scarlet Fever.	Diphtheria.	Membranous Croup.	Enteric Fever.	Typhus Fever.	Continued Fever.	Puerperal Fever.	Erysipelas.
1st .....	408	...	206	58	14	74	...	4	7	45
2nd .....	484	28	290	46	9	64	...	6	6	35
3rd .....	411	7	236	46	11	79	...	3	3	26
4th .....	499	...	311	53	5	99	1	1	5	24
Year .....	1802	35	1043	203	39	316	1	14	21	130

Hospital  
Isolation

**Amount of Hospital Isolation of Infectious Diseases.—**  
Of the 1,802 notified cases, 926 or 51·4 per cent. were isolated by the Corporation during the year, as against 49·4 per cent. in 1893, 45·35 per cent. in 1892, 45·7 per cent. in 1891, and 39·0 per cent, in 1890. These figures are more eloquent than words can be of the rapid removal of prejudice in respect of hospital isolation in the Borough, which has so largely resulted from the improved hospital accommodation which was completed in 1892.

The number of cases sent to hospital, under mistaken diagnosis, was 31, as against 18 in the year 1893, and 31 in 1892. The total percentage of mistaken cases to the total cases isolated was, therefore, 3·4, as against 1·8 in 1893. It will be noted that none of the mistaken cases came from the Broughton district, and that the greatest number of such cases came from the Regent Road and Greengate districts.

District.	Total number of cases notified.	Total number of notified cases isolated in Hospitals.	Percentage of cases isolated in Hospitals.	Number of cases sent to Hospitals under mistaken diagnosis.	Percentage of mistaken cases to total cases isolated.
Regent Road .....	702	391	55·7	13	3·3
Greengate .....	252	128	50·8	11	8·6
Pendleton .....	537	269	50·1	7	2·6
Broughton .....	311	138	44·4	...	...
<b>Borough .....</b>	<b>1802</b>	<b>926</b>	<b>51·4</b>	<b>31</b>	<b>3·4</b>

**Disinfection of Premises.**—There were 1,664 houses disinfected and cleansed, after the occurrence in them of cases of infectious sickness, by the Health Department during the year, as against 1,840 in the year 1893, 1,386 in 1892, and 1,045 in 1891. There were also four houses disinfected at the request of medical practitioners, in connection with the presence in them of acute cases of phthisis, and one ship, after typhus-fever, lying in one of the Salford docks of the Manchester Ship Canal.

Disinfection of Premises

The following table shows the distribution of the houses thus dealt with.

Houses.	Regent Road.	Greengate.	Pendleton.	Broughton.	<b>Boro.</b>
Stoved with Sulphur, and paper stripped off walls	} 361	123	304	183	<b>971</b>
Stoved with Sulphur only .....					
	} 272	124	186	111	<b>693</b>
<b>Totals.....</b>	<b>633</b>	<b>247</b>	<b>490</b>	<b>294</b>	<b>1664</b>

**Amount of Disinfection of Bedding and Clothing by the Corporation.**—There were 1,076 parcels of infected clothing

Disinfection of Bedding, &c.

Disinfection of  
Bedding, &c.

and bedding disinfected by means of high pressure steam, at the Sanitary Station attached to the Ladywell Sanitorium, as against 1,840 parcels in 1893, and 694 parcels in 1892. The distribution of parcels in 1894 to the districts to which they belonged was as follows:—Regent Road, 431; Greengate, 309; Pendleton, 147; Broughton, 189.

There were besides 10 lots of bedding and clothing destroyed in the incinerator at the Sanitary Station, the district distribution of which was as follows:—Regent Road, 5; Greengate, 2; Pendleton, 3; Broughton, 0.

Protection of  
Schools

### **Preventive Measures in Public Elementary Schools.**

In consequence of the prevalence of scarlet-fever, it was found advisable to secure the disinfection of the St. Ann's School, Brindle Heath, in the early part of the month of May, the Grecian Street School at the end of September, and the Primrose Hill School in the middle of November. The Hope Schools, drawing pupils from a widely scattered area on the confines of the west boundary of the Borough, was closed for three weeks on account of the same disease. In the month of June it was also found desirable to cause the disinfection of the Salford Day Industrial School, the Peel Street School, and the Sunday School of the Broad Street Welsh Chapel, in connection with the recurrence of small-pox in the Borough.

Disease  
Prevalence

### **Prevalence and Distribution of Zymotic Diseases.—**

The 1,802 cases of notifiable zymotic diseases, in the Borough during the year, were distributed to the four registration districts, as shown in the succeeding tables; and as regards the three principal diseases—scarlet-fever, diphtheria, and enteric-fever—in the three consecutive spot-maps.

But, inasmuch as measles and whooping-cough are not notifiable diseases in the Borough, I have endeavoured, as in the year 1893, to give some idea of their extent and the locality of their greater prevalence during the year, by the insertion of tables showing the amount of the mortalities attributable to them. It will thus be seen that there were 144 deaths from measles, and 140 from whooping-cough, as against 91 and 98 respectively in 1893. In the case of both diseases, the greatest fatality was in the Regent Road and Greengate districts, in which the density of the population is immensely greater than in the rest of the Borough. The two tables, moreover, plainly illustrate how great is the fatality from both these diseases among infants under five years of age.



## DEATHS FROM MEASLES IN THE YEAR 1894.

Disease  
Prevalence

QUARTERS.	AT ALL AGES.					UNDER FIVE YEARS.				
	Borough.	Regent Road.	Greengate.	Pendleton.	Broughton.	Borough.	Regent Road.	Greengate.	Pendleton.	Broughton.
1st .....	53	36	4	4	9	53	36	4	4	9
2nd .....	57	29	9	12	7	54	28	9	11	6
3rd .....	29	8	6	13	2	29	8	6	13	2
4th .....	5	...	2	3	...	5	...	2	3	...
Year .....	144	73	21	32	18	141	72	21	31	17

## DEATHS FROM WHOOPING COUGH IN THE YEAR 1894.

QUARTERS.	AT ALL AGES.					UNDER FIVE YEARS.				
	Borough.	Regent Road.	Greengate.	Pendleton.	Broughton.	Borough.	Regent Road.	Greengate.	Pendleton.	Broughton.
1st. ....	50	25	10	2	13	46	24	8	2	12
2nd. ....	50	33	9	5	3	47	31	8	5	3
3rd. ....	25	6	5	6	8	22	4	5	5	8
4th. ....	15	7	4	2	2	15	7	4	2	2
Year .....	140	71	28	15	26	130	66	25	14	25

TABLE SHOWING THE DISTRICT DISTRIBUTION OF NOTIFIED CASES OF  
INFECTIOUS DISEASES DURING 1894.

	Small-pox	Scarlet-fever.	Diphtheria.	Membranous Group.	Enteric-fever.	Typhus-fever.	Continued-fever.	Puerperal-fever.	Erysipelas.	Total.
Regent Road.....	18	388	82	11	137	...	1	10	55	702
Greengate .....	5	106	33	17	54	1	8	2	26	252
Pendleton .....	8	325	49	7	105	...	3	5	35	537
Broughton .....	4	224	39	4	20	...	2	4	14	311
<b>Borough .....</b>	<b>35</b>	<b>1043</b>	<b>203</b>	<b>39</b>	<b>316</b>	<b>1</b>	<b>14</b>	<b>21</b>	<b>130</b>	<b>1802</b>

#### Small-Pox

**Small-Pox.**—It may be remembered that, in my special report on the epidemic of this disease which prevailed in the Borough during the years 1892 and 1893, I stated that there were 173 cases of the disease notified, and that the last case was discharged from hospital in September, 1893. From the end of that epidemic period until April 12th, 1894, no fresh case of small-pox was notified in Salford. Then, owing to the prevalence of the disease in the adjoining city of Manchester, several cases were notified; and the outbreak in Salford was at its height during the month of June. The last notification was on August 31st, and the patient was discharged on September 19th. Though sharp in its character, the extent of the 1894 outbreak was not great. There were in all only 35 cases, and of these at least five were tramps. As I have already pointed out in an earlier portion of this report, the total mortality among the 35 cases was only two; and of these one was an unvaccinated infant, and the other a woman aged 46 years, on whom no trace of vaccination marks could be found, although she believed that she had been vaccinated in her infancy. The following table, giving a detailed statement of cases of small-pox in 1894, is on the plan I adopted in my special report on the preceding 173 cases in 1892 and 1893. An examination of it will not be uninteresting, although the figures are not large, and this fact must be taken into account in estimating the value of conclusions drawn therefrom. There were 20 males attacked, as





# MAP OF THE COUNTY BOROUGH OF SALFORD.

Divided into Registration Sub-districts and Enumeration Districts, shewing the distribution of Scarlet Fever in Salford for the year 1894.

The figures indicate the numbers of the Enumeration Districts, thus—163.

The coloured dots indicate the houses where cases occurred.







against 15 females. Both the deaths were of females. The greatest incidence of the disease was, in both sexes, between the fifteenth and fortieth years of life, when the protection given by vaccination in the earliest years of life had become less durable, and should have been repeated. Of the four certainly unvaccinated persons, one died, being at the rate of 25 per cent. Of the two doubtfully vaccinated persons, or on whom no marks could be discovered, one died, being at the rate of 50 per cent. Of the 29 certainly vaccinated cases none died. These facts in themselves are of much interest, as showing the enormous protective value of vaccination, even when it has not been repeated, as it ought to be, between the age of 12 to 15 years. It is certainly much to be hoped that the lessons learnt in Salford during the last three years, from the behaviour of this disease within the Borough, may bear good fruit among the inhabitants, and teach them not to neglect that means of protection against small-pox which is always to their hand.

SCARLET-FEVER SICKNESS.—RATES PER 1,000 OF THE POPULATION.

		1889.	1890.	1891.	1892.	1893.	Mean.	1894.
<b>Salford (Borough)</b> ...		<b>6.60</b>	<b>5.01</b>	<b>2.43</b>	<b>4.31</b>	<b>4.25</b>	<b>4.52</b>	<b>5.06</b>
<b>SALFORD DISTRICTS.</b>	{ Regent Road ...	6.18	4.70	1.64	5.57	4.38	4.49	4.69
	{ Greengate .....	8.81	5.21	2.11	3.16	1.76	4.21	3.45
	{ Pendleton .....	5.40	4.70	3.23	3.25	5.18	4.35	6.15
	{ Broughton .....	7.20	5.91	3.26	3.98	4.71	5.01	5.66

**Scarlet-Fever.**—As already pointed out, there were 1,043 cases of this disease during the year 1894, being an increase of 178 cases over the total numbers respectively for the years 1893 and 1892, as against 482 cases in 1891, and as against 985 cases in the year 1890. The greatest incidence of the disease was during the second and fourth quarters of the year, and the Regent Road and Pendleton districts supplied nearly 70 per cent. of the total number of the cases. The prevalence of the disease was slightly higher in the Broughton district than it was in the year 1893, and about double as prevalent in the Greengate district as in 1893. Although the disease had assumed the character of an epidemic, particularly during the fourth quarter of the year, and the Borough rate of sickness from the disease was higher, per 1,000 of the population, than the mean for the preceding five years, it is interesting to note that the rate of sickness in the Greengate district has fallen markedly below the mean, while the rates for the other three districts have increased. No inconsiderable measure of this difference is doubtless due to the fact that most of the disturbances of population in the Borough, during the past five years, have taken place within the limits of that Registration area. On the other hand, while the Regent Road district does not show a large increase

DETAILED STATEMENT OF

No.	NAME.	Sex	Age.	Notification.	Rash.	Removal to Hospital.	Type of Disease.	Result.	Date of Discharge.
1	W. S. ....	M.	37 years	Apr. 12, 1894.	Apr. 11, 1894.	Apr. 12, 1894.	Confluent ....	Discharged	May 30, 1894.
2	S. B. ....	F.	29 "	" 14, "	" 11, "	" 14, "	Confluent ...	Discharged	" 14, "
3	S. A. D. ..	F.	21 "	" 15, "	" 11, "	" 15, "	Discrete .....	Discharged	Apr. 28, "
4	T. K. ....	M.	29 "	" 16, "	" 12, "	" 16. "	Confluent ....	Discharged	June 23, "
5	J. T. K. ..	M.	8 "	" 27, "	" 27, "	" 27, "	Discrete .....	Discharged	" 23, "
6	J. K. ....	M.	5 "	" 27, "	" 27, "	" 27, "	Confluent ....	Discharged	July 7, "
7	J. D. ....	M.	21 "	May 10, "	May 9, "	May 10, "	Discrete .....	Discharged	June 9, "
8	M. A. S. ..	F.	7 mths.	" 29, "	" 25, "	" 29, "	Confluent ....	Died.....	" 15, "
9	V. F. ....	M.	14 years	" 29, "	" 28, "	" 29, "	Discrete .....	Discharged	" 9, "
10	M. K. ....	F.	14 "	" 30, "	" 28, "	" 30, "	Semi-Confluent	Discharged	" 30, "
11	G. A. W. ...	M.	27 "	June 4, "	June 2, "	June 4, "	Semi-Confluent	Discharged	July 4, "
12	C. H. R. ..	M.	29 "	" 7, "	" 5, "	" 7, "	Confluent ....	Discharged	" 29, "
13	R. N. ....	F.	19 "	" 11, "	" 10, "	" 11, "	Confluent ....	Discharged	" 11, "
14	J. B. ....	M.	22 "	" 11, "	" 10, "	" 11, "	Semi-Confluent	Discharged	Aug. 4, "
15	M. E. G. ..	F.	13 "	" 12, "	" 11, "	" 12, "	Semi-Confluent	Discharged	" 4, "
16	W. T. ....	M.	16 "	" 14, "	" 14, "	" 14, "	Discrete .....	Discharged	June 23, "
17	A. G. ....	M.	19 "	" 15, "	" 15, "	" 15, "	Discrete .. ...	Discharged	" 30, "
18	A. M. ....	F.	19 "	" 15, "	" 15, "	" 15, "	Semi-Confluent	Discharged	July 21, "
19	E. W. ....	F.	25 "	" 16, "	" 16, "	" 16, "	Discrete .....	Discharged	" 4, "
20	A. G. ....	F.	19 "	" 16, "	" 16, "	" 16, "	Semi-Confluent	Discharged	" 4, "
21	C. W. T. ..	M.	36 "	" 19, "	" 16, "	" 19, "	Semi-Confluent	Discharged	Aug. 1, "
22	J. W. M. ....	M.	27 "	" 21, "	" 21, "	" 21, "	Discrete .....	Discharged	July 4, "
23	M. A. P. ...	F.	15½ "	" 22, "	" 22, "	" 22, "	Confluent ....	Discharged	Aug. 4, "
24	T. H. ....	M.	27 "	" 25, "	" 21, "	" 25, "	Semi-Confluent	Discharged	" 4, "
25	F. W. ....	F.	46 "	" 26, "	" 25, "	" 26, "	Confluent ....	Died.....	June 30, "
26	C. P. ....	M.	12 "	" 26, "	" 26, "	" 26, "	Semi-Confluent	Discharged	Aug. 4, "
27	C. R. S. ..	M.	26 "	" 29, "	" 25, "	" 29, "	Discrete .....	Discharged	July 14, "
28	M. M. ....	F.	18 "	" 29, "	" 27, "	" 29, "	Discrete .....	Discharged	" 21, "
29	W. C. ....	M.	21 "	July 11, "	July 11, "	July 11, "	Discrete .....	Discharged	" 25, "
30	J. M. F. ...	M.	17 "	" 12, "	" 11, "	" 12, "	Discrete .....	Discharged	" 25, "
31	E. M. ....	F.	19½ "	" 12, "	" 12, "	" 12, "	Discrete .....	Discharged	" 29, "
32	A. S. ....	F.	19 "	" 22, "	" 21, "	" 22, "	Semi-Confluent	Discharged	Sep. 20, "
33	H. S. ....	M.	22 "	Aug. 6, "	Aug. 6, "	Aug. 6, "	Confluent ....	Discharged	" 20, "
34	F. D. ....	F.	35 "	" 22, "	" 19, "	" 22, "	Semi-Confluent	Discharged	" 8, "
35	J. B. ....	M.	19 "	" 31, "	" 29, "	" 31, "	Semi-Confluent	Discharged	" 19, "



CASES OF SMALL-POX, 1894.

Hospital.	Vaccination.		No. of other Inmates of House.					Particulars of the several cases, and probable source of infection.
	Date.	Number and Character of Marks.	Males.	Females.	Vac-cinated.	Unvac-cinated.	Re-vac-cinated.	
9	Infancy ....	2 Un-F. $\frac{1}{2}$ ....	1	7	8	..	..	Jobbing Printer. Been wandering in search of work.
1	„ ...	2 Un-F. $\frac{1}{2}$ ....	2	..	1	1	..	Brass Founder. Been visiting in Hulme, Manchester, March 27th.
4	„ ....	2 Un-F. under $\frac{1}{2}$	4	4	8	..	..	Weaver. In search of work, and staying in Ancoats, Manchester.
9	Not vacc'd.	....	7	2	8	1	..	Dyer. Been in Angel Meadow, Manchester.
8	Infancy ....	4 F. over 1 ....	5	2	7	..	..	} Children of Case No. 4
1	Not vacc'd.	....	5	2	7	..	..	
0	Infancy ....	2 Un-F. $\frac{1}{4}$ ....	Tramp	Ward.				Tramping through St. Helens, Wigan, Bolton, Rochdale, Stockport, Bury.
8	Not vacc'd.	....	3	2	5	..	..	Doubtful. Child been ill with whooping cough, variola supervening.
2	Infancy ....	3 Un-F. over $\frac{1}{2}$	..	4	4	..	..	Errand boy: probably been brought in contact with unknown infection.
2	„ ....	3 Un-F. $\frac{1}{4}$ ....	1	3	4	..	1	Doubtful.
1	„ ....	1 F. $\frac{1}{4}$ .....	1	2	3	..	..	Engaged in passenger traffic on the River Irwell.
3	„ ....	3 Un-F. $\frac{1}{4}$ ....	1	2	3	..	..	Among crowd on occasion of the Queen's Visit, May 21st.
1	„ ....	2 F. $\frac{1}{4}$ - $\frac{1}{2}$ ....	..	4	4	..	..	Same house as Case No. 9.
5	„ ....	2 F. over $\frac{1}{2}$ ....	Tramp	Ward.				Tramped from Newcastle to Manchester.
4	„ ....	2 Un-F. $\frac{1}{4}$ - $\frac{1}{2}$ ....	3	5	8	..	..	Doubtful.
0	„ ....	1 F. $\frac{1}{4}$ - $\frac{1}{2}$ .....	4	2	5	..	1 had S.P.	} Doubtful.
6	„ ....	2 Un-F. $\frac{1}{2}$ ....	..	2	2	..	..	
7	„ ....	3 F. $\frac{1}{2}$ .....	..	2	2	..	..	„ „ „
9	„ ....	3 Un-F. $\frac{1}{2}$ ....	..	..	..	..	..	„ „ „
9	„ ....	2 Un-F. $\frac{1}{4}$ - $\frac{1}{2}$ ....	..	..	..	..	..	„ „ „
4	„ ....	2 Un-F. over $\frac{1}{2}$	2	2	3	1	2 had S.P.	} Contact with Cases No. 11, 17, 18, 19, and 20.
4	„ ....	2 F. $\frac{1}{4}$ - $\frac{1}{2}$ .....	1	1	2	..	..	
0	„ ....	1 Un-F. $\frac{1}{4}$ - $\frac{1}{2}$ ....	1	2	3	..	1	District Sanitary Inspector. Inspecting home of Cases Nos. 11, 17, 18, 19, and 20.
1	„ ....	3 F. 1 .....	4	2	6	..	1	Contact with Case No. 14.
5	„ ....	No marks ..	1	1	2	..	1	Looking for work in Manchester, where disease is very prevalent.
0	„ ....	No marks ..	..	1	1	..	1	Contact with Cases Nos. 14 and 23.
6	„ ....	4 F. over 1 ....	2	1	3	..	..	„ „ „
3	„ ....	3 F. over $\frac{1}{2}$ ....	6	4	9	1	2	Doubtful.
5	„ ....	2 F. over $\frac{1}{2}$ ....	1	1	2	14 d'ys old.	..	Contact with Case No. 15.
4	„ ....	3 F. over $\frac{1}{2}$ ....	6	3	8	1	2	„ „ „ No. 28.
8	„ ....	3 F. over $\frac{1}{2}$ ....	5	3	7	1	2	„ „ „ same house.
1	„ ....	3 F. over $\frac{1}{2}$ ....	Private Surgery,					„ „ „ „
6	Not vacc'd.	....	Found wander'g about.					Tramped from Leeds to a Medical Practitioner's Surgery.
8	„							Tramped from Liverpool.
8	Infancy ....	3 F. over $\frac{1}{2}$ ....	1	..	1	..	1	In contact with persons affected in Manchester.
0	„ ....	3 F. over $\frac{1}{2}$ ....	4	1	5	..	..	Tramp in search of work.

Scarlet-Fever in prevalence, the Pendleton and Broughton districts show important increases. Inasmuch, however, as it is precisely in these last two districts that the increase in building operations is most manifest, it is obvious that the population in them are increasing, and that in them also the numbers per persons susceptible to scarlet-fever are probably likewise being increased. As has already been indicated, the type of the disease during 1894 was unusually severe, and occasioned a larger mortality than the average for the preceding ten years.

DIPHThERIA SICKNESS.—RATES PER 1,000 OF THE POPULATION.

	1889.	1890.	1891.	1892.	1893.	Mean.	1894.
<b>Salford</b> (Borough) ...	<b>3·55</b>	<b>3·53</b>	<b>1·11</b>	<b>1·01</b>	<b>1·02</b>	<b>2·04</b>	<b>0·99</b>
<b>SALFORD DISTRICTS.</b> { Regent Road ...	3·15	3·08	0·84	1·15	0·92	<b>1·83</b>	0·99
{ Greengate .....	3·87	3·69	1·06	1·23	0·78	<b>2·13</b>	1·07
{ Pendleton .....	4·14	5·16	1·44	0·74	1·17	<b>2·53</b>	0·93
{ Broughton.....	3·34	2·17	1·32	0·93	1·20	<b>1·79</b>	0·98

Diphtheria

**Diphtheria.**—There were 203 cases of diphtheria and 39 of membranous croup during the year 1894, as against 207 of diphtheria and 54 of membranous croup during the year 1893, as against 204 and 27 respectively in the year 1892, as against 222 cases of diphtheria in 1891, and as against 694 cases in 1890. The stationary character of this disease, therefore, in the Borough, to which I have before called attention, has now been maintained during a period of about four years, and none the less it cannot be denied that the amount of prevalence is too high. It is much higher than it was in the years preceding the great epidemic of the disease, which commenced in the year 1888, and which did not subside until the close of the year 1890. A comparison with the figures of those earlier years shows this clearly: since in 1883 there were only 81 cases; in 1884, 99 cases; in 1885, 54 cases; in 1886, 42 cases; in 1887, 83 cases; and in 1888, 176 cases. I am still hopeful, however, that the measures of disinfection and general sanitation, which are continuously being carried out in the Borough, may yet bring the annual prevalence of the disease to a lower level than has been the case during the past four years; and that the nearer approach to the condition of things existing before the great epidemic period mentioned, may yet be attained.

The number of notifications during the year 1894 shows that the disease was very evenly maintained throughout the year, the numbers for the consecutive quarters having been 58, 46, 46, and 53. Of the whole number of cases, 79, or 38·9 per cent. were of children under five years of age, as against 34·8 per cent. in 1893, 30·4 per cent. in 1892, and 34·2 per cent. in 1891.

Of the cases of membranous croup, 33, or 84·6 per cent. were of children under five years of age. If the total number of



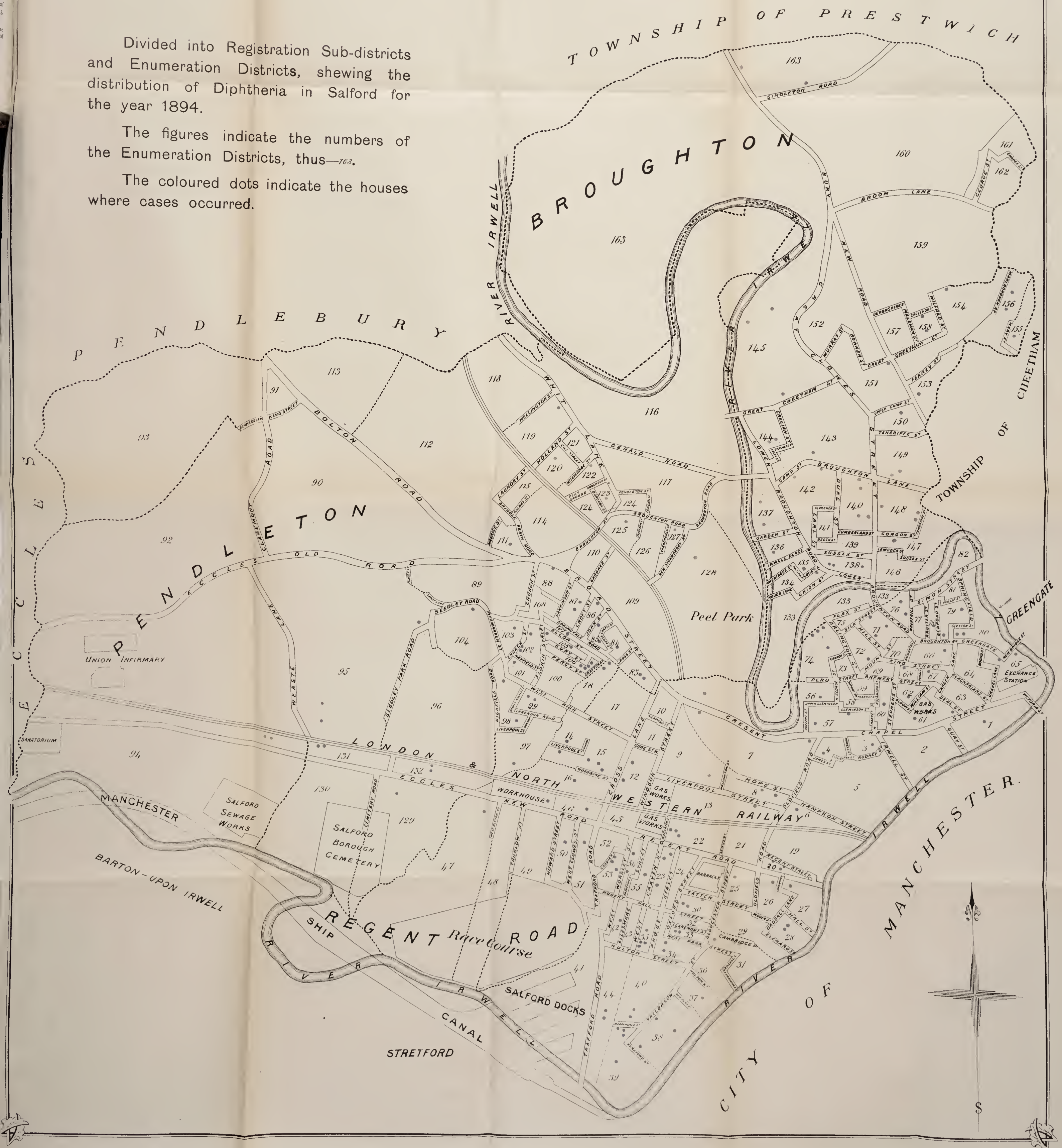


# MAP OF THE COUNTY BOROUGH OF SALFORD.

Divided into Registration Sub-districts and Enumeration Districts, shewing the distribution of Diphtheria in Salford for the year 1894.

The figures indicate the numbers of the Enumeration Districts, thus—763.

The coloured dots indicate the houses where cases occurred.







membranous croup be reckoned with the cases of diphtheria, then <sup>Diphtheria</sup> the total number of cases of these two diseases during 1894 was 242, as against 261 in the year 1893. Of the total number, therefore, 112, or 46·3 per cent. occurred in children under five years of age, as against a total of 41·7 per cent. in the year 1893, and as against 35·5 per cent. in 1892.

ENTERIC-FEVER SICKNESS.—RATES PER 1,000 OF THE		Enteric Fever							
		POPULATION.							
		1889.	1890.	1891.	1892.	1893.	Mean.	1894.	
<b>Salford</b> (Borough) ...		<b>2·49</b>	<b>1·95</b>	<b>1·90</b>	<b>1·72</b>	<b>2·77</b>	<b>2·17</b>	<b>1·54</b>	
SALFORD DISTRICTS.	{ Regent Road ...	3·09	2·36	2·36	2·03	3·52	2·67	1·65	
	{ Greengate .....	1·36	1·46	1·30	2·38	1·37	1·57	1·76	
	{ Pendleton .....	3·21	2·16	1·72	1·21	2·90	2·24	1·99	
	{ Broughton .....	1·25	1·20	1·66	1·27	2·12	1·50	0·51	

**Enteric-Fever.**—There were 316 cases of enteric-fever notified during the year 1894, as against 563 cases in the year 1893, 347 cases in 1892, 378 cases in 1891, and 383 cases in 1890. Thus, in the year 1894, there were fewer cases notified than in any one of the four preceding years. Moreover, reference to the above table will show that, in respect of the whole Borough, and also of its several districts, each and all had a lower rate of enteric-fever sickness than the corresponding mean rates for the preceding five years, with the single exception of the Greengate district. The improvement is particularly noticeable in the Broughton and Regent Road districts of the Borough; and there is also noticeable, considerable improvement in the Pendleton district in respect of the year 1894, as against the year 1893. I am not able to say, positively, what has been the main reason for this satisfactory diminution in the rate of enteric-fever sickness; but, undoubtedly, the cleansing and flushing of all the sewers and passage drains in the Borough, during 1894, must have had some influence on the propagation of the disease from sewer emanations. It is greatly to be hoped that this annual cleansing of the sewers will not be allowed to lapse from any cause, but will be continued as a necessary sanitary measure for the general welfare of the Borough. The moveable flushing tanks appear to answer their purpose remarkably well, and to be easily managed.

Of the 316 cases of enteric-fever, 27, or 8·5 per cent. were recorded as being children under five years of age, as against 8·8 per cent. in the year 1893. The disease was spread more evenly than usual over all four quarters of the year, but still the third and fourth quarters showed a greater prevalence than the other two, particularly the fourth quarter.

Typhus-Fever      TYPHUS-FEVER SICKNESS.—RATES PER 1,000 OF THE POPULATION.

		1889.	1890.	1891.	1892.	1893.	Mean.	1894.
<b>Salford</b> (Borough) ...		<b>0·02</b>	<b>0·04</b>	<b>0·05</b>	<b>0·02</b>	<b>0·02</b>	<b>0·03</b>	<b>0·00</b>
SALFORD DISTRICTS	{ Regent Road ...	0·03	0·04	0·00	0·00	0·00	<b>0·01</b>	0·00
	{ Greengate .....	0·00	0·06	0·00	0·01	0·03	<b>0·02</b>	0·03
	{ Pendleton .....	0·00	0·02	0·02	0·02	0·08	<b>0·03</b>	0·00
	{ Broughton.....	0·03	0·00	0·00	0·00	0·00	<b>0·01</b>	0·00

**Typhus-Fever.**—A single case of typhus-fever occurred during the year 1894, as against five cases of the disease in the year 1893, five cases in 1892, one in 1891, and six in 1890. It occurred in the Greengate district, in the person of a woman in fairly comfortable circumstances. The origin of the disease was obscure. The patient was 37 years of age, and was taken ill in the month of October; she had not been from home, or in contact with anyone having the infection, so far as enquiry could show. The case was removed to the Sanatorium, but proved rapidly fatal.

Puerperal-Fever      **Puerperal-Fever.**—There were 21 cases of puerperal-fever during the year 1894, as against 30 cases in the year 1893, as against 26 cases in 1892, 32 cases in 1891, and 22 cases in 1890. There were, therefore, rather fewer cases of the disease during 1894 than in any of the preceding four years. Eleven of the cases proved fatal. Special enquiries were made in all the cases, but it was not necessary for the Health Department to take any further action than to secure efficient disinfection of premises, bedding, and clothing.

Erysipelas      **Erysipelas.**—There were 130 cases of erysipelas during the year, as against 147 cases in the year 1893, 86 cases in 1892, 53 cases in 1891, and 76 cases in 1890. The cases were distributed as follows :—Regent Road district, 55; Greengate, 26; Pendleton, 35; Broughton, 14. In 12 cases the attacks were in infants under five years of age. In only one case was there a history of a previous attack of the disease. There were eight deaths in all attributed to erysipelas, and they were distributed as follows :—Regent Road district, 4; Greengate, 0; Pendleton, 2; Broughton, 2. The case attributed to carelessness after vaccination occurred in the person of an infant in the Greengate district, and satisfactorily recovered.

The following table gives a summary of brief particulars in respect of the cases which occurred during the year 1894 :—

Particulars of cases.	No. of Cases.
Facial, after colds .....	89
„      simply .....	11
Following falls.....	6
—	
Carried forward .....	106



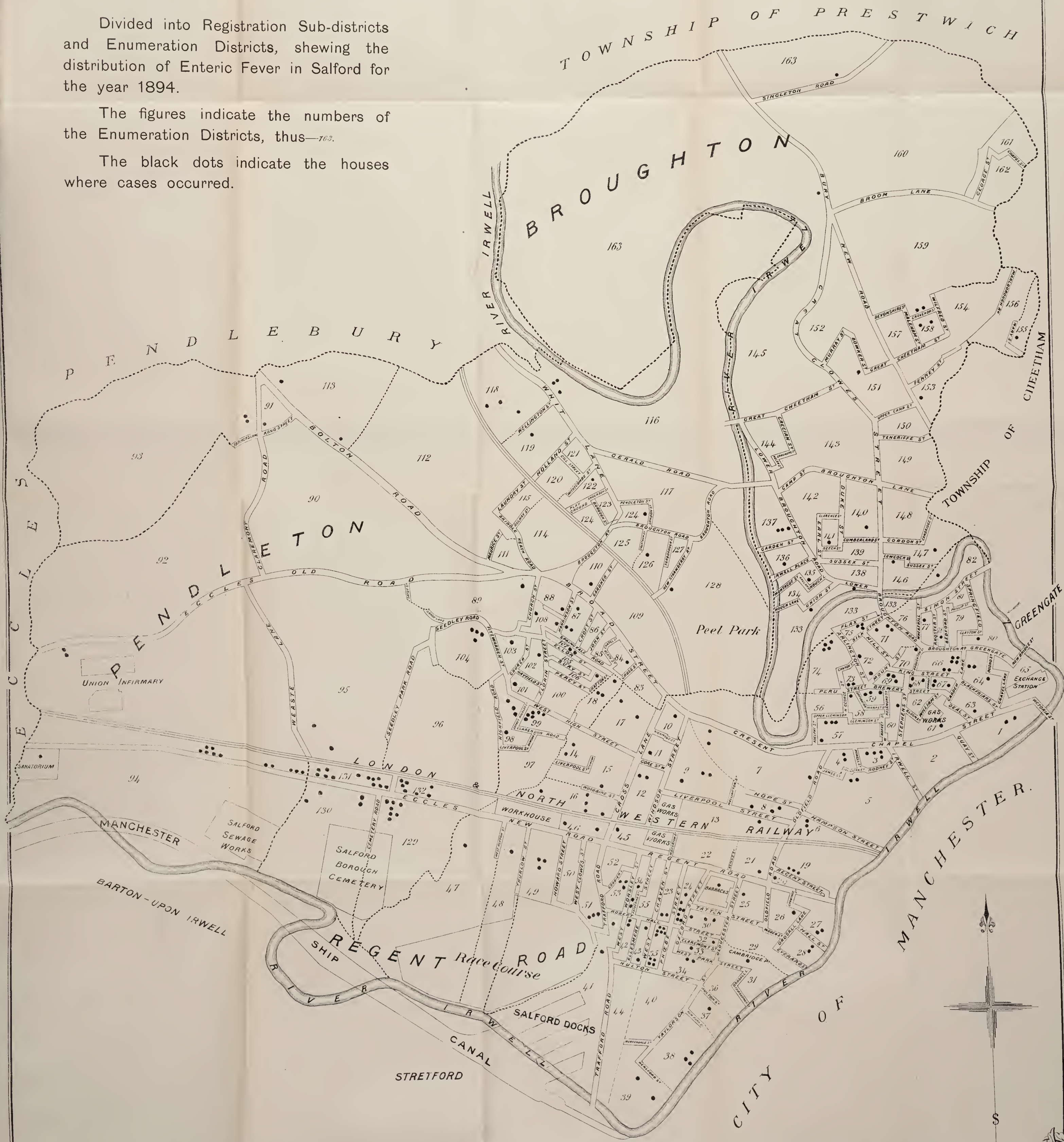


# MAP OF THE COUNTY BOROUGH OF SALFORD.

Divided into Registration Sub-districts and Enumeration Districts, shewing the distribution of Enteric Fever in Salford for the year 1894.

The figures indicate the numbers of the Enumeration Districts, thus—763.

The black dots indicate the houses where cases occurred.







the year 1894  
distribution of Enteric  
and Enumeration Di  
Divided into Reg

Particulars of Cases.	No. of Cases.	Erysipelas
Brought forward .....	106	
Following wounds and cuts .....	9	
„ abscess or tumour.....	2	
„ scratch .....	2	
„ „ of cat.....	1	
„ pains in the head .....	1	
„ the burst of a blood-vessel in the head .....	1	
„ cold—disease in the leg .....	2	
In the knee.....	1	
After enteritis .....	1	
„ lupus in the nose .....	1	
In the arm, probably from want of clean- liness after vaccination .....	1	
Facial, after previous attack .....	1	
No account.....	1	
Total .....	<u>130</u>	



TABLE OF POPULATION, BIRTHS, AND OF NEW CASES OF INFECTIOUS SICKNESS, COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER OF HEALTH, DURING THE YEAR 1894, IN THE COUNTY BOROUGH OF SALFORD, CLASSIFIED ACCORDING TO DISEASES, AGES, AND LOCALITIES.

Names of Localities adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	POPULATION AT ALL AGES.		Regis- tered Births.	Aged Under 5 or Over 5.	NEW CASES OF SICKNESS IN EACH LOCALITY, COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER OF HEALTH.											NUMBER OF SUCH CASES REMOVED FROM THEIR HOMES IN THE SEVERAL LOCALITIES FOR TREATMENT IN ISOLATION HOSPITAL.													
	Census 1891.	Esti- mated to Middle of 1894.			1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11	12		
																												FEVERS.	FEVERS.
[a.]	[b.]	[c.]	[d.]	[e.]	Small-Pox.	Scarlatina.	Diphtheria.	Membranous Group.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Cases sent to Hos- pital under mis- taken Diagnosis.													
(H2) REGENT ROAD	79,025	82,687	2882	Under 5. 5 upwds.	1 17	158 230	35 47	8 3	8 ..	8 129	8 ..	8 1	8 48	8 4	8 4	8 2	8 15	8 22	8 6	8 129	8 6	8 4	8 4	8 2	8 10	8 ..	8 17	8 0	
GREENGATE ..	30,707	30,707	1155	Under 5. 5 upwds.	.. 5	56 51	11 22	15 2	.. 1	6 48	.. 1	.. 4	6 4	.. 2	.. ..	5 21	.. 15	.. 22	.. 1	.. 48	.. 4	.. 4	.. 2	.. ..	.. ..	.. ..	.. 3	.. 5	.. 8
(H1) PENDLETON ..	50,543	52,845	1817	Under 5. 5 upwds.	.. 8	137 188	28 21	6 1	.. ..	12 93	.. ..	.. 3	12 3	.. 5	.. ..	3 32	9 5	84 127	9 5	.. ..	3 26	.. 2	.. ..	.. ..	.. ..	.. 5	.. 1	.. 6	
BROUGHTON ..	37,864	39,589	1193	Under 5. 5 upwds.	.. 4	80 144	5 34	4 ..	.. ..	1 19	.. ..	1 1	1 19	.. 4	.. ..	2 12	34 77	.. 27	.. 12	.. 8	.. ..	.. ..	.. ..	.. ..	.. ..	.. 3	.. 4	.. 8	
Borough ....	198,139	205,828	7047	Under 5. 5 upwds.	1 34	431 612	79 124	33 6	.. 1	27 289	.. 5	5 9	5 9	.. 21	.. ..	12 118	1 34	247 386	27 50	7 133	2 1	2 1	2 ..	2 ..	4 30	4 8	30 23		

State here whether "Notification of Infectious Disease" is compulsory in the District: Yes. Since when? 1882. Besides the above-mentioned Diseases, insert in the columns with blank headings the names of any that are notifiable in the District, and fill the columns accordingly. State here the name of the Isolation Hospital used by the sick of the District. Mark (H) the Locality in which such Hospital is situated; and if not within the District, state where it is situated: (H1) *Ladywell Sanatorium* and (H2) *Made Wheel Hospital*.

IV.

ORDINARY SANITARY WORK OF THE  
HEALTH DEPARTMENT.





## IV.

## WORK OF THE HEALTH DEPARTMENT.

**Staff of Sanitary Inspectors under the Health Department.**—There were some changes of *personnel* among the Inspectors of the Department during the year 1894, and some re-arrangement of their duties ; but there was no alteration in the number of officers employed. The staff now consists of a chief inspector of nuisances, an assistant inspector, two drainage inspectors, a smoke inspector, an inspector for lodging-houses and for food and drugs, another for canal boats and workshops, an inspector under the Shop Hours Act and for food and drugs, a veterinary inspector, and five district inspectors. There are still eight disinfectors in the employ of the department, who are generally fully occupied with the duties of disinfection of premises, but who, when not so engaged, are employed in ordinary inspection work.

There are still six female health visitors working in the Borough, under the auspices of the Ladies' Health Society, a moiety of whose wages is paid by the Corporation. They report directly to the Medical Officer of Health, and I shall deal, elsewhere in this report, more fully with the results of their labours during the year.

It being desirable that from time to time there should be a careful revision of the duties of the officers of the department, as fresh methods of work are instituted, the Health Committee, on my recommendation, adopted certain regulations with regard to the department and the inspectors, and ordered the same to be printed for the information of each officer referred to in them. (Appendix).

**Systematic Inspection.**—The systematic inspection of the Borough has been maintained as in past years, and with satisfactory results. The general inspection of the Borough has also been greatly assisted by the public, inasmuch as they are much more ready now than formerly to send in written or make verbal complaints. A brief comparison of the number of complaints received at the department, during the tenure of my office, will show at once an increased interest in sanitary matters on the part of the public. In 1889, 3,075 complaints were received ; in 1890,

## Inspection

there were 4,166 ; in 1891, there were 4,785 ; in 1892, there were 3,050 ; in 1893, there were 4,972 ; and in 1894, there as many as 6,592. In all there were, without counting the inspections and visitations of the female health visitors, 33,118 inspections, and 29,114 re-inspections of premises of all kinds. Of these, 13,864 related to lodging-houses—including common lodging-houses and sub-let houses—1,440 to slaughter-houses, 809 to shippens, 467 to bakehouses, and 353 to dairies and milkshops. I think it may be fairly said that the work of the department, in respect of inspectional work, is kept at a satisfactory level, and that in many respects it is not of a decreasing character.

## Nuisances

**Abatement of Nuisances under the Public Health Act.**—The “Register of work done” during the year 1894, and which is given at the end of this section of the report, indicates very clearly the number and variety of the nuisances which have called for the attention of the department, and which have been abated. As usual, many were of a temporary character only ; others were of a more serious and permanent type. The measures asked for, in order to abate them, were, in all cases, of a complete kind, and in most instances they were adopted. It will be seen from the “Register” referred to, that as many as 3,160 house drains were repaired, 1,196 re-constructed, 909 trapped, and that 210 slopstone pipes and 1,458 rain-water pipes were disconnected from the house drains. There were 571 new water-closets provided, 112 soil-pipes ventilated, and two houses and six cellars closed as unfit for human habitation. In 128 cases, notices were served for the abatement of nuisances arising from accumulation of manure, other refuse, and water ; 254 dwelling-houses were specially lime-washed, as they were in a dirty condition, and, in respect of passages, there were 690 flagged, 3,538 repaired, and 170 re-drained.

There were as many as 1,715 observations made of smoke emitted from manufacturing chimneys, 96 cases of overcrowding abated, 81 animals removed from improper situations, and 754 samples of food taken for analysis.

## Vans, Tents, &amp;c.

**Vans, Tents, Sheds, &c., used as Dwellings.**—The following table shows the number of vans, tents, sheds, &c., which have come under the notice of the chief inspector during the year.

No. of Vans. Definite Business.	Gypsies.	Notices Issued.	Total No. of Vans.
250	14	1	264

These were regularly visited on their arrival and during their stay in the Borough. The ground around and about the vans was kept fairly clean and free from vegetable and other deposits. No

case of sickness occurred in any of the vans, so far as could be ascertained. There was only one case of overcrowding, and this was in respect of a small van which was only 9-ft. long by 5-ft. 5-in. wide, and having a small window only of 8-in. by 10-in. The overcrowding was at once abated, and a caution as to the future given. The vans congregated in considerable numbers in the neighbourhoods of Everard Street, Ordsall Lane, Trafford Road, and Cross Lane, in the Salford district; Montague Street, London Street, and Cromwell Road, in the Pendleton district; and Marlborough Road in the Broughton district. They were also to be found in smaller numbers in St. Simon's Street, New Blackfriars Street, and regularly in Trinity Market. Two parties of Gypsy-hawkers were located in the Lower Broughton Road, near Wallness Bridge.

Vans, Tents, &c.

**Dairies and Milkshops.**—At the end of the year 1894 there were 493 dairies and milkshops remaining on the register, being a decrease of 93 on the year 1893. Since the commencement of the year, 252 establishments were discontinued, and 159 were registered for the sale of milk. This large decrease in the number of milkshops has, in some measure, no doubt, arisen in consequence of greater attention being paid to them; but also in part to their having been previously in excess of requirement. The decreases in numbers in the several districts were as follows:—Regent Road, 63; Greengate, 19; Broughton, 16. In the Pendleton district there was, however, an increase of five new establishments.

No case of infectious sickness occurred in any of the milkshops during the year.

The following table gives the particulars of the dairies and milkshops in the several districts and for the Borough:—

District.	No. on Register 1893.	Newly Registered.	Discontinued.	Total on Register, 1894.	Notices Served.	Cases of Sickness.
Regent Road...	278	47	110	215	2	None.
Greengate .....	90	39	58	71	6	
Pendleton .. ...	90	18	13	95	2	
Broughton .....	128	55	71	112	6	
<b>Borough .....</b>	<b>586</b>	<b>159</b>	<b>252</b>	<b>493</b>	<b>14</b>	<b>None.</b>



## Bakehouses

**Supervision of Bakehouses.**—The following table gives the particulars as to the bakehouses in the Borough for the year 1894 :—

District.	No. of Houses.	No. of Ovens.	Kind of Ovens.				Employees.			Notices Served.	Summonses Issued.
			Waggon.	Flue.	Iron.	Gas	Men.	Women.	Boys.		
Regent Rd.	62	84	43	21	14	6	99	29	5	7	...
Greengate ..	11	17	13	1	3	...	24	5	4	4	...
Pendleton...	31	45	23	17	3	2	44	20	5	9	...
Broughton..	17	23	14	7	2	...	29	10	3	...	...
<b>Borough ...</b>	<b>121</b>	<b>169</b>	<b>93</b>	<b>46</b>	<b>22</b>	<b>8</b>	<b>196</b>	<b>64</b>	<b>17</b>	<b>20</b>	<b>...</b>

As compared with the year 1893, the bakehouses show a total increase of eight, being distributed thus :—Regent Road, six ; Greengate, 1 ; Pendleton, 1. They have all been regularly inspected, and, in general, found to be in a satisfactory condition. It was only necessary to serve 20 notices, and in no case was it necessary to issue a summons for non-compliance with any single notice. One or two points call for comment. The number of men employed fell from 208 in 1893, to 196 in 1894 ; and the number of women employed rose from 47 in 1893, to 64 in 1894. The number of boys employed remained the same in each year. Thus, with an increase of eight bakehouses, the total number of employees only amounted to an increase of five on the previous year. It is interesting further to notice, that though in the year 1893 there was only one gas-oven in use in the Pendleton district, the number of such ovens was increased in the year 1894 to two in the Pendleton district, and to six in the Regent Road district.

No case of infectious sickness occurred in any of the premises connected with bakehouses during the year.

## rick-burning

**Brick-burning.**—The number of brick-making places remained the same in the year 1894 as in the year 1893. There was no change of district or situation. At four places in the Pendleton district, and at one in the Regent Road district, the bricks are machine-made ; in all the others the bricks are hand-made. Two complaints only were received with respect to these places. One was in respect of smoke nuisance from the burning, and the other was in respect of a defective temporary closet. In each case the firm responsible was specially written to, and the nuisances were abated at once.

The following table shows the number of brick-making places <sup>Brick-burning</sup> under supervision in the year 1894 :—

District.	No. in 1894.	Machine-made.	Hand-made.	Still under Supervision.
Regent Road.....	2	1	1	2
Greengate .....	...	...	...	...
Pendleton .....	7	4	3	7
Broughton .....	...	...	...	...
<b>Borough</b> .....	<b>9</b>	<b>5</b>	<b>4</b>	<b>9</b>

**Noxious Trades.**—The following is a list of the noxious <sup>Noxious Trades</sup> trades in operation in the Borough, arranged according to the districts in which they are situated :—

Nature of Trades.	No. of Trades in the Districts and Borough.						
	Regent Road.	Green-gate.	Pendleton.	Broughton.	Borough.	Discontinued.	Newly Registered.
Tripe Dressing ..	6	3	4	...	<b>13</b>	2	1
Curled Hair ...	...	1	...	...	<b>1</b>	...	1
Tanneries .....	1	1	1	...	<b>3</b>	...	...
Varnish and Tar.	1	5	1	...	<b>7</b>	...	1
Chemical.....	5	1	2	1	<b>9</b>	...	1
Telegraph Cable	...	2	...	...	<b>2</b>	...	...
Floor Cloth.....	1	1	..	...	<b>2</b>	...	...
Rop Cleaning	5	1	1	1	<b>8</b>	2	4
Rubber .....	1	2	4	...	<b>7</b>	...	1
Oil and Tallow...	1	2	2	...	<b>5</b>	...	...
Soap .....	2	2	1	...	<b>5</b>	...	...
Paper .....	1	...	1	1	<b>3</b>	...	...
<b>Totals</b> .....	<b>24</b>	<b>21</b>	<b>17</b>	<b>3</b>	<b>65</b>	<b>4</b>	<b>9</b>

Noxious Trades

There was a net increase of five in the number of noxious trade establishments over that for the year 1893, and of these one was an entirely new business, namely, a curled hair manufactory. This business comes under the head of a noxious trade, owing to the boiling of the hair of animals in a solution of bi-chromate of potassium. The net increases of business were in respect of varnish, chemical, rop cleaning, and rubber works. There was a decrease of one establishment in respect of tripe dressing.

There were complaints from time to time in respect of two rubber and one soap works. In respect of these, the nuisance was ultimately abated by the disuse of bi-sulphide of carbon in one case, and in the others by greater and more permanent carefulness. They continue, however, under close observation.

In all, eight notices were issued during the year, in respect of five businesses in the Regent Road district and three in the Greengate district.

Common  
Lodging-houses

**Supervision of Common Lodging Houses.**—There were at the end of the year 1894, in addition to the municipal model lodging-house which was completed and opened during the year, 45 common lodging-houses in the Borough, as against 44 in the year 1893. These 45 houses contain 227 registered rooms, and provide accommodation for 1,287 persons, as against 259 rooms and 1,437 persons in the year 1893.

It was only necessary to serve nine Public Heath Act notices upon the tenants, and fifteen upon the landlords of these houses.

During the year 1894 there were only two cases of infectious sickness in any of the lodging-houses, namely:—one of scarlet-fever in a house in the Regent Road district, and one of enteric-fever in the Pendleton district. Both of these cases were promptly removed to the hospital.

The average accommodation of persons was as follows:—

	Nightly Lodgers.				Weekly Lodgers.		
	Male.	Female.	Total.		Male.	Female.	Total.
Regular .....	536	53	589	.....	375 <sup>2</sup>	371	4123
Casual .....	125	17	142	.....	875	119	994
	—	—	—	.. ..	—	—	—
Totals .....	<u>661</u>	<u>70</u>	<u>731</u>	.....	<u>4627</u>	<u>490</u>	<u>5117</u>

The following is a summary table as to the common lodging-houses in the Borough:—



District.	No. of Houses registered in 1894.	No. of Houses in all.	No of Rooms.	Bed Accommodation.	Complaints.	Infectious Diseases notified in houses.	Notices served on	
							Landlords.	Tenants.
Regent Road ...	4	24	127	636	...	1	10	2
Greengate .....	1	17	71	546	...	...	2	7
Pendleton .....	...	4	29	105	...	1	3	...
Broughton .....	...	...	...	...	...	...	...	...
<b>Borough ...</b>	<b>5</b>	<b>45</b>	<b>227</b>	<b>1287</b>	<b>...</b>	<b>2</b>	<b>15</b>	<b>9</b>

The following are the numbers of inspections made during the year :—

	Day.		Night.
Regent Road .....	3,650	...	30
Greengate .....	2,119	...	74
Pendleton .....	813	...	20
Total .....	<u>6,582</u>	<u>...</u>	<u>124</u>

**Houses Sub-Let in Lodgings.**—There were 775 of these houses on the register at the end of the year 1894, as against 782 in the year 1893. These 775 houses contain 2,522 registered rooms.

The following tables give the particulars, with regard to these houses, in the several districts of the Borough, for the year 1894 :—

TABLE I.

District.	No. of houses now registered.	No. of rooms.	Houses found un-registered during the year.		Complaints.	Notices served on	
			Since registered.	Since discontinued.		Landlords.	Tenants.
Regent Road.....	413	1319	86	65	5	19	20
Greengate .....	257	946	32	42	3	20	44
Pendleton .....	76	176	9	27	...	...	2
Broughton .....	29	81	16	16	...	...	...
<b>Borough.....</b>	<b>775</b>	<b>2522</b>	<b>143</b>	<b>150</b>	<b>8</b>	<b>39</b>	<b>66</b>

TABLE II.  
CASES OF INFECTIOUS DISEASES OCCURRING IN SUB-LET HOUSES.

DISTRICT.	Number of Infected Houses.	Number of Cases of Infectious Sickness.							Total.	
		Class of Houses.		Small-pox.	Scar-let Fever.	En-teric Fever.	Diph-theria.	Ty-phus Fever.	In registered Houses.	In Unregistered Houses.
		Regis-tered.	Un-regis-tered.							
Regent Road .....	7	7	...	...	9	2	1	...	12	...
Greengate .....	5	5	...	...	1	4	1	...	6	...
Pendleton .....	1	1	...	...	2	...	...	...	2	...
Broughton .....	...	...	...	...	...	...	...	...	...	...
<b>Borough.....</b>	<b>13</b>	<b>13</b>	...	...	<b>12</b>	<b>6</b>	<b>2</b>	...	<b>20</b>	...

TABLE III.

DISTRICT.	Nursed at Home.					Removed to Hospital				
	Small-pox.	Scar-let Fever.	En-teric Fever.	Diph-theria.	Ty-phus Fever.	Small-pox.	Scar-let Fever.	En-teric Fever.	Diph-theria.	Ty-phus Fever.
Regent Road .....	...	...	...	...	...	...	9	2	1	...
Greengate ... ..	...	...	1	...	...	...	1	3	1	...
Pendleton .....	...	...	...	...	...	...	2	...	...	...
Broughton .....	...	...	...	...	...	...	...	...	...	...
<b>Borough .....</b>	...	...	<b>1</b>	...	...	...	<b>12</b>	<b>5</b>	<b>2</b>	...

### Registration of Small Dwelling-Houses under Sec. 90 of the Salford Tramways and Improvement Act, 1875.—

Small Houses  
under Local Act  
1875

There still remain 64 of the original 73 houses registered under this Act, two dilapidated ones having been repaired since 1893. They have been regularly inspected by day, and occasionally at night. No case of infectious disease has occurred in them during the year, and their condition is satisfactory.

**Canal Boats.**—The Canal Boats Inspector reports that, during the year, there have been 1,383 inspections of canal boats, as against 1,061 in the year 1893, and 1,326 in 1892. The inspected boats contained 2,489 men, 841 women, and 477 children. The number of children of school age, found upon the boats, was nine, and the School Board were communicated with in each case.

No case of infectious disease was found on any of the boats.

The following is a list of the defects found in the inspected boats :—

Boats out of repair.	Cabins in want of repair.	Boats working without certificates.	Boats of which the names or numbers were defective.	Cabins found in a dirty condition.	Cases of over-crowding.	Cabins requiring painting.
27	2	7	21	28	2	4

**Inspection of Workshops.**—The following is a tabular statement of the work done, in respect of the inspection of workshops for sanitary purposes, under the Factory and Workshops Act, for the year 1894 :—

	Inspections of Workshops.
Regent Road.....	1460
Greengate .....	755
Pendleton .....	813
Broughton .....	634
Workshops newly registered.....	144
Notices issued for limewashing .....	31
Limewashing done without notice .....	20
Notices to factory inspector, as to the employment of women and girls .....	32
Beds removed from workrooms .....	2
Sanitary defects.....	10
Registrations cancelled.....	111
Total number of workshops on register .....	982



## Shop Hours Act

**Shop Hours Act, 1892.**—The inspector appointed under this Act has made the following tabular statement with regard to the work done by him for the year 1894 :—

District.	Total number of Inspections of Shops.	Total Number of Shops on the Register for the Borough.	Number of Young Persons under 18 years of age Employed.	Male.	Female.	Prosecutions.	Convictions.	Dismissed.	Cautioned.
Regent Road .	2441	278	295	261	34	...	...	...	...
Greengate.....	654	82	69	66	3	...	...	...	...
Pendleton .....	1328	157	159	154	5	...	...	...	...
Broughton .....	989	124	134	127	7	...	...	...	...
<b>Borough.....</b>	<b>5412</b>	<b>641</b>	<b>57</b>	<b>608</b>	<b>49</b>	...	...	...	...

There was thus an increase in the number of shops registered amounting to 45, but a decrease of 63 young persons under 18 years of age employed in them, since the year 1893. Shops once registered remain on the register for purposes of observation ; but it will be noticed that in the Greengate district several shops, which at one time gave employment for a young assistant, have not now such an one under 18 years of age. The execution of the Act, during the year, has met with satisfactory results, and no case requiring action has come under notice. This is, of course, due to the honest desire of shopkeepers to close as early as possible in the evening, and to keep the hours of labour within justifiable limits.

## Adulterations

**Proceedings under the Adulteration Acts.**—During the year 1894, 765 samples of food and drugs were submitted to the Public Analyst for the Borough Mr. J. Carter Bell, F.I.C., as against 955 samples in 1893. The diminution in the number of samples was due to circumstances connected with the re-arrangement of the duties of the special inspectors of the Health Department.

Six samples of milk were taken for analysis from the work-house and hospitals of the Borough, and 17 samples were received from tradesmen for analysis, together with the usual fee of 2s. 6d.

In respect of margarine, nine small shopkeepers were cautioned by the inspector for not having the margarine labelled according to the Act.

The following is a statement of the cases in which legal Adulterations proceedings were taken under the Sale of Food and Drugs Act :—

Articles.	No. of Cases.	Amount of Fines inflicted.	Total amount of Fines.
		£ s. d.	£ s. d.
Milk .....	} 5 {	I 0 0	
„ .....		0 10 0	
„ .....		I 0 0	
„ .....		I 0 0	
„ .....		0 10 0	
Margarine .....	I	0 10 0	4 10 0

SAMPLES COLLECTED BY THE INSPECTOR UNDER THE "SALE OF FOOD AND DRUGS ACT," FROM 1875 TO 1894.

	Total.	Milk.	Butter.	Bread and Flour.	Drugs.	Groceries.	Beer and Porter.	Wines and Spirits.	S'ndries
1875...	60	37	1	1	1	...	7	4	9
1876...	119	43	2	18	34	17	...	...	5
1877...	390	114	7	159	22	30	18	37	3
1878...	418	197	10	35	31	25	24	70	26
1879...	518	306	16	130	15	28	10	13	...
1880...	506	269	12	48	5	52	71	18	31
1881...	478	376	11	1	...	61	...	8	21
1882...	465	300	7	47	13	3	58	20	17
1883...	497	436	1	29	1	12	...	2	16
1884...	507	359	10	35	7	...	64	11	21
1885...	478	399	21	14	4	13	21	...	6
1886...	483	361	6	21	...	36	1	22	36
1887...	472	355	2	...	...	25	42	43	5
1888...	883	701	6	...	30	83	...	9	54
1889...	832	652	35	...	21	85	15	17	7
1890...	874	591	41	38	24	64	12	49	55
1891...	901	611	20	20	18	134	23	74	1
1892...	853	613	78	31	13	61	7	44	6
1893...	955	855	15	1	...	51	6	27	...
1894...	765	676	50	1	...	35	...	3	...

PERCENTAGE OF ARTICLES RETURNED AS ADULTERATED.

	Total.	Milk.	Butter.	Bread and Flour.	Drugs.	Groceries.	Beer and Porter.	Wines and Spirits.	S'ndries
1875...	66.6	62.1	100.0	0.0	0.0	...	100.0	75.0	66.6
1876...	40.3	55.8	50.0	27.8	35.3	17.6	...	...	60.0
1877...	27.4	40.3	28.6	11.3	13.6	6.7	0.0	97.3	0.0
1878...	29.9	29.4	10.0	2.9	51.6	4.0	4.2	67.1	0.0
1879...	12.0	13.1	25.0	5.4	26.6	10.7	10.0	2.3	...
1880...	20.2	25.2	75.0	6.3	0.0	17.3	11.3	11.1	9.7
1881...	16.3	18.1	9.1	0.0	...	1.6	..	37.5	23.8
1882...	15.5	19.0	14.3	2.1	53.8	0.0	1.7	10.0	17.6
1883...	6.6	6.7	0.0	3.4	0.0	8.3	...	50.0	6.3
1884...	7.1	2.8	40.0	5.7	57.1	...	0.0	27.3	61.9
1885...	5.2	4.8	4.8	7.1	0.0	15.4	0.0	...	33.2
1886...	3.9	1.1	50.0	0.0	...	25.0	0.0	0.0	8.3
1887...	8.7	9.9	0.0	...	...	8.0	2.4	7.0	0.0
1888...	6.3	2.8	100.0	...	26.6	13.3	...	0.0	20.4
1889...	10.09	7.3	22.8	...	28.5	24.7	0.0	0.0	14.2
1890...	5.1	1.9	50.0	0.0	0.0	15.6	0.0	30.6	12.7
1891...	6.1	1.4	35.0	10.0	0.0	22.3	0.0	9.4	0.0
1892...	7.4	4.2	29.5	0.0	23.1	18.0	0.0	0.0	0.0
1893...	6.6	4.0	26.7	0.0	0.0	17.6	0.0	59.3	0.0
Average,									
1884-93	6.6	4.0	35.9	3.3	16.9	17.8	0.3	14.8	15.1
1894...	1.2	1.2	2.0	0.0	...	0.0	...	0.0	...



*List of samples of Milk taken from Farmers' Cans during the year 1894, AT THE PLACE OF DELIVERY, by the Food Inspector, and the results of the Analyses.*

No.	Names and Addresses.	Results of Analyses.	Places of Delivery.
1	C. J., Chadderton .....	2% added water.....	Ordsall Lane Station.
2	H. M., Chelford .....	Pure .....	" "
3	B. A., North Rode .....	Do. ....	" "
4	P., Leek .....	Do. ....	" "
5	T., Chadderton .....	Do. ....	" "
6	B. R., Frodsham .....	Do. ....	" "
7	B. R., Frodsham .....	Do. ....	" "
8	J. T., Dunham Hill.....	Do. ....	" "
9	J. T., Dunham Hill.....	Do. ....	" "
10	J. T., Dunham Hill.....	Do. ....	" "
11	H. T., Sawley .....	10% added water ...	Victoria Station.
12	H. T., Sawley ...	15% added water ...	" "
13	T. W., Goosnagh .....	Pure .....	" "
14	T. W., Preston.....	Do. ....	" "
15	D. M., Wrexham .....	Do. ....	" "
16	H. T., Chatburn .....	Do. ....	Pendleton Station.
17	H. T., Chatburn .....	Do. ....	" "
18	H. T., Sawley .....	Do. ....	Victoria Station.
19	H. T., Sawley .....	Do. ....	" "
20	H. T., Sawley .....	Do. ....	" "
21	T. A., Gisburn.....	Do. ....	Pendleton Station.
22	T. A., Gisburn.....	Do. ....	" "
23	M. J. R., Newsholme .....	Do. ....	" "
24	W. S., Rimmington.....	Do. ....	" "
25	P. T., Chatburn .....	Do. ....	" "
26	P. T., Chatburn .....	Do. ....	" "
27	F. J., Newsholme .....	Do. ....	" "
28	F. J., Newsholme .....	Do. ....	" "
29	C. H. & A., Netherton, Frodsham..	3% added water .....	Exchange Station.
30	O. J. & T. L., Haslingden .....	Pure .....	Pendleton Station.
31	C. A., Frodsham .....	Do. ....	Exchange Station.
32	C. A., Frodsham .....	Very Poor Milk .....	" "
33	T. A., Stirk House .....	Pure .....	Pendleton Station.
34	T. A., Gisburn .....	Do. ....	" "
35	T. A., Stirk House ..	Do. ....	" "
36	T. A., Gisburn... ..	Do. ....	" "
37	T. A., Gisburn.....	Do. ....	" "
38	P. R., Gisburn .....	Do. ....	" "
39	F. J., Newsholme .....	Do. ....	" "
40	J. H., Mouldsworth.....	Do. ....	Old Trafford Station.
41	J. H., Mouldsworth.....	Do. ....	" "

Smoke from Factory Chimneys

**Smoke Nuisance.**—The Smoke Inspector reports that during the year 1894, he recorded 1,715 observations, as against 1,790 in the year 1893, and 1,287 in the year 1892.

During the year, 136 stokers and others were cautioned by the inspector for negligence of the furnaces under their charge. At the same time, 54 firms were reported and dealt with by the Health Committee. Notwithstanding that several firms have ceased work and left the Borough, the development of the Manchester Ship Canal and docks has brought other industries into the Borough, increasing the number of steam boilers and furnaces. It is gratifying to be able to say that all the new boilers are constructed to consume their own smoke.

NUMBER OF BLACKSMITHS' FORGES IN SALFORD AT THE  
END OF 1894.

Forges.	Borough Total.	Regent Road.	Greengate.	Pendleton.	Broughton
Blacksmiths.	88	31	24	22	11

NUMBER OF BOILERS AND FURNACES IN USE WITHIN THE FOUR  
DISTRICTS OF THE BOROUGH AT THE END OF 1894.

Registration Sub-Districts.	Boilers and Furnaces in use.		Notices issued by the Health Committee.	
	Properly Constructed.	Improperly Constructed.	Number Served.	Number complied with.
Regent Road ...	207	65	152	70
Greengate.....	140	57	105	77
Pendleton.....	160	50	102	66
Broughton .....	33	16	36	19
<b>Borough Total.</b>	<b>540</b>	<b>188</b>	<b>395</b>	<b>232</b>

The following is a list of cases in which legal proceedings were taken in respect of Smoke Nuisances during the year 1894 :—

Smoke from Factory Chimneys

Particulars of Offence.	No. of Cases.	How dealt with.	Total Amount of Fines.
Using furnaces not constructed to consume their own smoke.....	3	Three fined.....	£ s. d. 6 10 0
Negligently using furnaces constructed to consume their own smoke .....	28	{ 23 fined, 3 withdrawn, and 2 dismissed..... }	15 7 0
<b>Totals.....</b>	<b>31</b>	{ 26 fined, 3 withdrawn, 2 dismissed }	<b>21 17 0</b>

**Prevalence of Epizootic Diseases.**—Inspector Fordham, M.R.C.V.S., reports that no case of foot-and-mouth disease or pleuro-pneumonia occurred in the Borough during the year 1894. There were seven outbreaks of swine fever during the year; 11 pigs were affected with the disease, two were found dead, 85 others which had been in contact were slaughtered; six by the local authority, through orders from the Agricultural Board, and 79 by permission of the Inspector of the Agricultural Board. The premises, etc., were disinfected in accordance with the Swine-Fever Order, 1894. One case of glanders occurred during the year, namely, on the 25th of June, in a cart-shed in a yard off West Peel Street, Regent Road, Salford. The animal was slaughtered and destroyed, and one-half the value of the animal, before being slaughtered, was granted as compensation.

Diseases of Animals

During the year 1894, Inspector Fordham was called upon to make post-mortem examinations of 15 dogs, which were suspected to be suffering from rabies. Of these, four were found to be true cases of rabies. The Rabies Order of 1892 was put into force on the 1st of September, 1894, until further notice; that is, until the Rabies (Muzzling of Dogs) Order, 1889, was adopted on December 1st, 1894, and this remained in force until the Rabies Order of 1892 was put into force again (January 15th, 1895).

**Unwholesome Meat.**—Over 37 tons of meat unfit for human food was seized during the year, as against about 35 tons in 1893. All this meat was destroyed in the furnace at the manure dépôt. The following table gives the monthly seizures of such meat, and the amounts :—

Meat unfit for Human Food



Meat unfit for  
human food

### MONTHLY SEIZURES OF UNWHOLESOME MEAT.

Month.	No. of Seizures.	Weight.			
		Tons.	Cwts.	Qrs.	Lbs.
January .....	44	4	1	2	8
February .....	50	5	10	2	27
March .....	37	3	6	...	27
April .....	18	1	14	3	14
May .....	26	3	14	...	7
June .....	27	4	1	2	7
July .....	25	2	9	2	9
August .....	34	2	12	1	18
September .....	31	2	17	3	15
October .....	31	3	5	1	18
November .....	25	1	14	2	16
December .....	19	1	18	2	4
<b>Totals.....</b>	<b>367</b>	<b>37</b>	<b>7</b>	<b>2</b>	<b>2</b>

Table showing the kinds of unwholesome meat seized, and the weight:— Meat unfit for human food

Kind.	No. of Seizures.	Weight.			
		Tons.	Cwts.	Qrs.	Lbs.
Beef .....	62	19	9	2	14
Mutton .....	238	12	11	3	5
Veal .....	42	1	18	2	13
Pork .....	16	2	...	1	14
Horseflesh .....	1	...	15	...	...
Fish .....	4	...	6	1	23
Eggs .....	3	...	5	1	26
Gherkins .....	1	...	...	...	19
Totals .....	367	37	7	2	2

**Cowsheds and Shippons.**—At the end of the year 1894 Cowsheds, &c. there were 26 cowsheds and shippons on the register, against 25 in the preceding year. These were regularly inspected and the keepers found to have complied with the regulations.

**Private Slaughter-houses.**—There were 36 private Private Slaughter-Houses slaughter-houses in use in the Borough at the end of 1894, which is the same number as at the end of 1893. These establishments were regularly inspected and found to be kept in a satisfactory condition, in accordance with the bye-laws.

**Drainage Examinations.**—The work of drainage examination has been vigorously carried on since its initiation as a part of Examination of Drains by the Smoke-Test the health work of the department, and the results, as shown by the following tables relative to the year 1894, may fairly be considered as satisfactory evidence of the utility of its being regularly continued in the future. The examinations are made, on the one hand, for the purpose of discovering insanitary conditions in connection with house-drainage; and, on the other, to ensure that the drains of new houses and re-constructed drains are efficient before they are covered in. In all there was a total of

Examination of Drains by the Smoke-Test 2,455 such examinations during the year 1894, affecting as many as 7,216 houses. As a consequence of 754 tests for insanitary conditions, 691 sanitary notices were issued for their remedy, and by the end of the year 598 of these had been fully complied with.

The following tabular statements indicate the amount of work done, and the results :—

EXAMINATIONS MADE FOR THE PURPOSE OF DISCOVERING  
INSANITARY CONDITIONS.

Number of tests made .....	754
„ applications from house-holders..	43
„ houses affected by the tests .....	5272
„ notices issued.....	691
„ notices complied with by the end of the year .....	598

INSANITARY CONDITIONS DISCOVERED.

Defects.	No. of Cases.
Drains partly or wholly choked .....	102
Drains defectively constructed or broken ...	244
Gully traps badly laid .....	266
Drains defectively trapped .....	69
Waste pipes defectively trapped or connected to drains .....	45
Rainwater pipes connected to drains .....	308
Soil pipes with leaky joints or defectively ventilated .....	70
Defective water-closets.....	61
<b>Total defects.....</b>	<b><u>1165</u></b>

EXAMINATIONS MADE FOR THE PURPOSE OF TESTING THE  
RE-CONSTRUCTION OF DRAINS AND THE  
CONSTRUCTION OF NEW DRAINS.

Number of tests applied .....	1701
„ houses affected .....	1944
„ passage drains.....	127



LIST OF CASES, OTHER THAN ADULTERATION AND SMOKE CASES, TAKEN  
BEFORE THE MAGISTRATES DURING THE YEAR 1894.

Particulars of Offence.	No. of Cases	How dealt with.	Total Amount of Fines.
			£ s. d.
Exposing diseased animals } and meat for sale... .. }	7	{ 5 fined in all, 1 com- mitted to prison for 2 months, and 1 case was withdrawn .....	21 1 0
Unlawfully occupying } houses after being closed on certificate of the Medical Officer of Health }	2	Fined 1s. each.....	0 2 0
Premises in such a state } as to be a nuisance..... }	3	{ 2 withdrawn—nuisances abated, and 1 case dis- missed .....	...

TABULATED PARTICULARS OF WORK DONE BY THE HEALTH DEPARTMENT  
DURING THE YEAR ENDING DECEMBER 29th, 1894.

	Boro'	Regent Road.	Green gate.	Pendle- ton.	Brough- ton.
No. of Complaints received .....	6592	2320	2445	1157	670
{ Of Dwelling-houses .....	15608	4038	3862	4869	2839
„ Cellars .....	1	...	1	...	...
„ Schools.....	..	...	...	...	...
„ Lodging-houses .....	13652	7122	4975	1479	76
„ „ —at night...	212	59	115	38	...
„ Slaughter-houses.....	1440	646	146	465	183
„ Dairies and Milkshops .....	353	45	63	100	145
„ Shippons .....	809	125	5	285	394
„ Ashpits after complaint ..	...	...	...	...	...
„ Tips .....	237	...	...	80	157
„ Miscellaneous .....	339	26	222	81	10
„ Bakehouses—day .....	454	232	40	112	70
„ „ —night.....	13	8	3	1	1
Re-inspections.....	29114	8439	2282	11464	6929
Action taken.. { Notices issued ..	5019	1747	892	1449	931
{ Letters written.....	4532	1527	560	1463	982
{ Summonses issued .....	50	12	12	16	10
Houses Disin- { Stripped.....	912	321	116	275	200
fectd ..... { Fumigated .....	1097	309	179	360	249
{ Repaired.....	3160	760	163	1259	978
{ Reconstructed .....	1196	264	201	208	523
House Drains { Trapped .....	909	134	121	254	400
{ Slopstone Pipes discon: from...	210	12	16	26	156
{ Downspouts disconnected from..	1458	251	72	376	759
{ New, provided .....	24	13	2	4	5
Privies and { Repaired and drained .....	1985	296	125	921	643
Ashpits..... { Cleansed by tenants.....	34	14	6	4	10
{ Emptied after complaint .....	1507	410	479	284	334
{ Reconstructed .....	10	...	...	10	...
Water Closets { New, provided .....	571	108	114	57	292
{ Ventilated .....	19	...	1	6	12
{ Soil-pipes ventilated.....	112	3	1	5	103
{ Urinals provided .....	3	...	1	1	1
{ Dwelling-houses .....	254	29	102	121	2
{ Cellars .....	38	1	22	...	15
Limewashed... { Lodging-houses.....	127	59	56	12	...
{ Slaughter-houses .....	151	70	12	33	36
{ Dairies and Milkshops.....	18	...	...	4	14
{ Shippons .....	98	15	...	35	48
Closure of..... { Houses unfit for habitation.....	2	...	2	...	...
{ Cellars unfit for habitation.....	6	...	6	...	...
Cellar Areas filled up .....	...	...	...	...	...
{ Lodging-houses.....	143	86	32	9	16
Newly { Slaughter-houses .....	...	...	...	...	...
Registered... { Dairies and Milkshops.....	133	73	...	7	53
{ Second-hand Goods Stores.....	157	68	32	44	13
Accumulations { Manure and Refuse .....	120	39	37	29	15
Removed ... { Stagnant Water .....	8	6	1	...	1
Smoke { Observations taken .....	1715	459	471	662	123
Nuisance ... { Notices served .....	27	17	6	4	...
{ Flagged .....	690	56	46	103	485
Passages and { Repaired .....	3538	1125	240	1274	899
Yards ..... { Drained .....	170	36	23	69	42
Infected Bed: { Stoved .....	899	349	111	279	160
and Clothing { Destroyed .....	15	2	8	5	...
Food ..... Samp. purch. for analysis .....	754	337	160	87	170
Bad Meat..... Seizures made .....	367	320	28	9	10
Animals removed from improper situations... ..	81	20	7	21	33
Overcrowding of dwellings abated.....	96	37	49	10	...
Houses repaired, by owners, after notice.....	3325	508	248	869	1700

V.

SPECIAL SANITARY MATTERS.





## V.

## SPECIAL SANITARY MATTERS.

**Insanitary Dwellings of the Working-Classes.**—Insanitary  
Dwellings

(1) *The Closure of Cellars and other Dwellings.*—Six cellar-dwellings were closed during the year 1894. There are, therefore, 84 cellar-dwellings still remaining out of 279 such dwellings which were in occupation at the time when I took office in 1889. The cellars which are still occupied are of the better class, but their gradual closure will be proceeded with as circumstances may indicate to be desirable. It was also found necessary to close two dwelling-houses as being unfit for human habitation. Both of these were in the Greengate District. One of them is now used as a workshop, and the other has been added to another house adjoining it.

(2) *Progress of Scheme on Official Representations of the Medical Officer of Health, dated 1890.*—In my last annual report, I stated that a block of artisans' dwellings had been actually commenced on the cleared ground of one of the condemned areas. The erection of this block has been in progress throughout the year 1894, and some of the tenements were let before the end of the year. It is scarcely necessary to say that the block, which is only of three storeys, forms an important improvement in the neighbourhood where it is situated, and has greatly improved the ventilation and light of the streets surrounding it. Certain cottages have been removed from others of the several condemned areas, which had fallen into irreparable conditions, and which had become vacant. In this way, the work of clearance is being gradually accomplished, and will no doubt be proceeded with in the future.

**Model Common Lodging-House.**—The model common lodging-house to which I referred in my last annual report, as being in course of erection, was completed during 1894, and was Model Lodging-  
House

Model Lodging-  
House

formally opened for occupation on October 13th of that year, by Mr. Alderman A. L. Dickins, the Chairman of the Health Committee. It has proved a great success, for the full complement of lodgers—285—has been almost always attained since the opening of the house. It is arranged for men only, and has the great advantage of a separate cubicle system in the dormitories, as against the open dormitory arrangement which is customary in ordinary common lodging-houses. The provision shop established inside the lodging-house is a great boon to the lodgers, and appears to be well patronized. It is satisfactory to be able to record that no case of infectious disease among the large number of lodgers accommodated nightly has yet occurred in the house. I have appended to this report a copy of the rules to be observed in the establishment by the lodgers (Appendix II.)

Demolition of  
Dwellings for  
Special Purposes

**Demolition of Dwellings by Railway Extensions and for other purposes.**—There were some 25 houses demolished for the purposes of railway extension by the Lancashire and Yorkshire Railway in the Greengate district especially. They were situated in Deal Street, Cook Street, Cross Street, Holland's Court, and Cross Court. Eight houses in Golden Lion Court, Stable Street, and Johnson Street, were demolished on account of their dilapidation. But the great demolition of dwellings and buildings has taken place in connection with the opening out of a new street from Springfield Lane to Wheathill, through land belonging to the Dean and Canons of the Manchester Cathedral. They include six stables, one warehouse, one bakehouse, one slaughterhouse, and 119 cottages, situated in East Stanley Street, Paradise Row, Preston's Place, Collier's Yard, Bridgewater Street, Bridgewater and Greenvale Squares, Bridgewater Court, Tongue Street, Bedford Street and Courts, and in Vale and Greenvale Streets. The improvement which will result from this procedure can hardly fail to be great, and prove to have a beneficial effect on the neighbourhood through which the new street will run.

Hospital Accom-  
modation

**Hospital Accommodation.**—The Ladywell Sanatorium proved sufficient for the needs of the borough during the year, and was capable also of earning no inconsiderable revenue from the isolation of patients in private wards, and of patients from the neighbouring borough of Eccles, and a few other out-lying districts. It was also necessary to re-open the temporary Small-Pox Hospital at Mode Wheel for the isolation of the notified cases of that disease, which occurred during 1894. The continued maintenance of the Mode Wheel Hospital is necessary for Salford, in view of the inability of the Monsall Hospital authorities to isolate Salford cases in epidemic times, and of the difficulties which exist in the way of any more suitable site at present.



The following table shows the distribution of cases isolated at the expense of the Corporation since 1883 :—

Year.	Wilton.	Ladywell.	Modewheel	Pendlebury.	Monsall.	Total.
1883 ...	342	...	—	...	1	343
1884 ...	645	...	—	31	30	706
1885 ...	482	...	—	14	14	510
1886 ...	910	...	—	18	45	973
1887 ...	892	...	—	33	37	962
1888 ...	753	...	—	16	102	871
*1889 ...	888	...	—	5	239	1132
*1890 ...	914	...	—	4	25	943
*1891 ...	532	...	—	...	1	533
*1892 ...	326	415	...	...	24	765
†1893 ...	58	848	107	...	...	1013
1894 ...	—	922	35	...	...	957

**Excrement and Refuse Disposal.**—The destructor for the Pendleton district, which I mentioned in my last annual report as being in process of building, was completed during 1894. There are thus three destructors provided in the borough for the consumption of refuse, namely, one in the Salford, one in the Pendleton, and one in the Broughton township.

During the year 1894, no less than 571 water-closets were provided for dwelling-houses, as against 522 in the year 1893, 740 in 1892, 1,009 in 1891, 653 in 1890, and 132 in 1889. The new closets were distributed as follows :—Regent Road district, 108 ; Greengate, 114 ; Pendleton, 57 ; and Broughton, 292.

**Female Health Visitors**—As I stated in my last annual report, there are six female health visitors in full work in the borough of Salford. They report daily to the Medical Officer of Health, and the sanitary defects and other health matters reported by them are referred to the sanitary inspectors of the Health Department to follow up. Besides the insanitary conditions reported by the visitors, much good has been done by them in their respective districts in giving advice to mothers, as to the treatment of their children in respect of cleanliness, feeding, and clothing. They have also given instruction in matters relating to the cleanliness and ventilation of the dwelling, and in domestic economy. The work that they have done has been useful and of

\* Under the heading of Wilton Hospital must be included the sheds at Hope Hospital in temporary use as an annexe of the Wilton Hospital.

† Only small-pox was treated in the Wilton Hospital during a portion of this year.

Female Health  
Visitors

a good kind, and the following table gives a summary of the sani-  
tary information which they supplied to the Health Department  
during the year.

DISTRICT.	No. of Houses in each District.	No. of Visits.		Dilapidated Houses.	Dirty Houses.	Improved since last visit.	Overcrowded.	Special Reports.	Average Death-Rate, 1889-93.
		Special.	Ordinary.						
Ordsall .....	1709	...	7742	198	592	5721	81	28	31'2
Trinity .....	1923	...	7070	343	1114	2978	150	17	36'5
Adelphi .....	1726	...	4522	52	730	3152	85	7	28'4
St. Simons No. 1.	} 2926	{ 1	3290	398	101	915	89	22	} 32'5
St. Simons No. 2.		{ ...	3304	387	695	1077	59	12	
St. George's .....	2192	...	3430	67	202	29	40	23	26'2
Total.....	10476	1	29358	1445	3434	13872	504	109	...

## APPENDICES.





## APPENDIX I.

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# GENERAL REGULATIONS AND DUTIES OF INSPECTORS.

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*Adopted by the Health Committee, May 31st, 1894.*

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### **GENERAL REGULATIONS AND DUTIES OF INSPECTORS OF ALL GRADES.**

The general management and control of the Health Department, and of all its subordinate officers, is entrusted to the Medical Officer of Health.

It is required that every candidate for appointment as Sanitary Inspector (whether Chief, or District, or Special), shall in future produce to the Health Committee, evidence of his having successfully passed the examination for Sanitary Inspectors, held by the Sanitary Institute of Great Britain, or some other similar examination approved by the Health Committee.

It is required of every Officer in the service of the Health Committee, that he maintain a considerate manner in his dealings with the public. and that he be especially patient towards the poor. With tact and persuasion he will generally be able to induce people to comply with the requirements of the Corporation, without necessitating recourse to legal proceedings to compel them to do so.

In view of the private and personal character of all information received from medical practitioners with respect to infectious sickness among their patients, and of the desirability of establishing confidential relations with

those patients and their friends, it is essential that all such information confided to the department should be treated as strictly private.

The Health Committee wish it to be distinctly understood that every Inspector is expected to do his duty with absolute impartiality. The Committee undertake that no Inspector shall suffer in any way for discharging his duty or reporting defects in property belonging to persons of position and influence.

Under Clause 5 of Section 25 of the Standing Orders, it is required that—

“In case any employé of the Corporation is absent from duty, owing to sickness, he shall, at once, give notice to the head of his department. If the absence continue more than three days, the head of the department shall report it to the Committee having charge of the department in which the employé is engaged. If the absence continue more than a week, a medical certificate shall be furnished by the employé. Every medical certificate, with regard to the health of any employé of the Corporation absent from duty on the ground of sickness, shall be on a form to be used in each department of the service, and shall specify the nature of the disease, and whether it is of a chronic or acute nature, and shall, also, state the date at which the employé will, in the opinion of the medical practitioner, be able to resume duty.”

Every Officer, immediately on coming on duty must sign the time book, and enter the time of his arrival.

The official hours are from 9 a.m. until 5 p.m. on all week-days, except Saturday, when the hours are from 9 a.m. until 1 p.m.

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#### **DUTIES OF CHIEF INSPECTOR.**

The Chief Inspector is responsible to the Health Committee, through the Medical Officer of Health, for the general sanitary inspection of the Borough by the District Inspectors, whose work, subject to the special duties required of them, he must direct and superintend.

It is the duty of the Chief Inspector to organize and maintain a system of house to house inspection, some portion of each week being devoted to this duty.



He must keep a complete register of the Dairies and Milk-shops in the Borough, and see that they are regularly inspected and visited by himself and the District Inspectors.

He must render every assistance to the Medical Officer of Health, in his efforts for the suppression of infectious disease, and for the improvement of the health of the Borough.

In case of danger to the public health arising from failure to secure the removal of an inefficiently isolated infectious case, he must forthwith apply for guidance to the Medical Officer of Health.

At least once in every month the Inspector must submit, to the Medical Officer of Health, a list of all nuisances remaining unabated after service of notice, of all orders of the Health Committee uncomplied with, and of all sanitary defects unremedied, and must receive the instructions of the Medical Officer of Health on each case.

He must attend Court to support prosecutions, as heretofore, in all sanitary cases in which Magisterial proceedings have become necessary.

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#### **DUTIES OF THE DISTRICT INSPECTORS.**

They must leave the office *not later* than 9-30 a.m. every morning.

On leaving the office they must proceed without delay to the houses in their several districts where fresh cases of infectious disease have been notified, and fill in the printed forms of information regarding each case for the use of the Medical Officer of Health.

Their next duty is to attend to complaints from their districts which have been received up to the time of their leaving the office, and to such other matters which have been referred to them by the Medical Officer of Health or the Chief Inspector.

Under the direction of the Chief Inspector they must next proceed with the systematic and regular inspection of portions of their districts, and make full report thereon each day in their official diaries.

They must regularly report to the Chief Inspector all nuisances remaining unabated after service of notice, all orders of the Health Committee uncomplied with, and all sanitary defects unremedied.

Their official diaries must be ready to be looked over by the Chief Inspector at 9 a.m. each day.

They may return to the office, in the Salford Town Hall, at, *but not before*, 4 p.m., unless specially ordered otherwise by the Medical Officer of Health or the Chief Inspector.

They are allowed one hour in each day, except Saturdays, for their dinner.

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#### **DUTIES OF ASSISTANT INSPECTOR.**

The Assistant Inspector is required to assist the Chief Inspector in the performance of his duties, especially in respect of the secondary inspections of properties prior to the issue of legal notices for the carrying out of sanitary requirements and alterations.

He must also render assistance to the Medical Officer of Health when required, and be ready to take the place of the Chief Inspector in superintending the duties of the District Inspectors when the Chief Inspector is absent from duty.

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#### **DUTIES OF DRAINAGE INSPECTORS.**

The Drainage Inspectors are required to test the drains of all premises referred to them for that purpose, of all re-laid drains, and of all drains of new houses, by smoke or other approved means, prior to their being certified as fit for human habitation.

They must submit a daily report of such work done, for the information of the Medical Officer of Health.

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#### **LODGING-HOUSES, SUB-LET HOUSES, WORKSHOPS, BAKEHOUSES, CANAL BOATS, AND SHOP HOUSES.**

The Special Inspectors for the purpose of seeing that the various Acts and Bye-laws for the regulation of the above, or any other purpose under the direction of the Medical Officer of Health, shall cause the several premises, &c., to be regularly visited. Every infringement of the laws shall be reported by them to the Medical Officer of Health, and they must submit a daily

report of the work done by them for the information of the Medical Officer of Health.

The Inspector under the Factory and Workshops Regulation Acts shall especially ascertain and record the number and locality of all workshops—including bakehouses—in the Borough, and report all such places in which it is found that the requirements of these Acts have been infringed in respect of cleanliness, ventilation, overcrowding, or insufficient closet accommodation.

The Inspector under the Canal Boats Acts will also make, from time to time, inspection of all canal boats coming into the Borough, and report any infringement of the Acts of Parliament relating thereto. He shall also keep such registers and records as are required by the said Acts.

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#### **DUTIES OF THE SMOKE INSPECTOR.**

He must be constantly watchful of the chimneys in the Borough, and report all cases where black smoke is emitted for a longer period than is allowed by the Acts or regulations in force from time to time within the Borough.

He is required to keep his books in a proper manner, to make out notices and serve the same, and to keep a record of all observations made by him.

He is also required to keep a register of the works and places, of business in the Borough coming under the provisions of the 91st Sect. of the Public Health Act, 1875, in regard to Smoke nuisance, and, after informing himself of the engine and boiler power and arrangements for consuming smoke in each works, to enter such particulars in the register.

He must keep a daily record of work done by him for the information of the Medical Officer of Health.

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#### **DUTIES OF THE INSPECTORS UNDER THE FOOD AND DRUGS AND MARGARINE ACTS.**

The Inspectors shall, from time to time, with or without special orders from the Health Committee or Medical Officer of Health, carry out the duties devolving upon them by these Acts.



They must work in concert with each other; and the result of all analyses necessitated by the Acts must be submitted to the Medical Officer of Health for his remarks thereon, before proceedings are taken.

The Inspectors must keep a daily record of work done by them for the information of the Medical Officer of Health.

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#### **DUTIES OF THE VETERINARY INSPECTOR.**

IN RESPECT OF SLAUGHTER-HOUSES, UNDER THE DAIRIES, COWSHEDS, AND MILK-SHOPS ORDER OF 1885, AND IN RESPECT OF MEAT FOR HUMAN FOOD.

The Inspector is responsible for seeing that the Acts, regulations, and bye-laws, in respect of Slaughter-houses and Cowsheds, are duly carried out in the Borough, and is required to seize all meat unfit for the food of man, that the same may be duly condemned by a Justice of the Peace.

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## APPENDIX II.

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### Regulations to be observed by Lodgers.

1.—Male lodgers only will be received into the house ; the hours of admittance are between 6 a.m. and 11 p.m.

2.—Persons of cleanly and respectable appearance only, and such as the Manager shall pass as apparently sober, free from disease and filth, and sound in mind, will be admitted into the house, and such lodgers will be admitted at the following charges, to be paid in advance, namely : 5d. per night, or 2s. 6d. per week ; or 4d. per night, or 2s. per week.

3.—No lodgers will be admitted to the day-room or kitchen until provided with a ticket, which can be procured from the Manager.

4.—No credit will be given to any lodger, and no bed will be reserved which is not paid for by 7-30 p.m.

5.—The Lodging House is closed and all lights put out at 11 30 p.m. on week-days, and at 10-30 p.m. on Sundays. The kitchen is closed every night at 9 p.m.

6.—No lodger may remain in his bedroom after 8-30 a.m. on week-days, or 9-30 a.m. on Sundays. A general "Call up" is given at 8-0 a.m. on week-days and 9-0 a.m. on Sundays. Those lodgers desirous of being called up at any hour during the night, should give their cubicle number and time of rising to the attendant on going up to the dormitories.

7.—No smoking is allowed on the stairs, or in the dormitories, or dining hall, or kitchen.

8.—Smokers and others must use the spittoons, and no one may spit upon the floors.

9.—No intoxicating liquors may be brought into the house. No gambling, quarrelling, profane or indecent language will be allowed, nor

anything calculated to disturb the peace and good order of the house, or the comfort of the inmates, and anyone violating this rule will be expelled, and his ticket forfeited.

10.—All property belonging to lodgers must be considered as under their own care ; but each lodger may have a separate locker in the dining-room on depositing sixpence, which deposit will be returned on re-delivery of the key.—*Note* : Attached to this is another key, which will unlock the box in the correspondingly-numbered cubicle. Bundles may be deposited with the Manager on payment of a small charge.

11.—No lodger shall cut, write upon, or otherwise deface, spoil, or damage any of the walls, tables, forms, chairs, beds, or books of the House, or in any other manner injure the property thereof ; or shall wilfully or wantonly create any nuisance, or make any dirt in any part of the establishment.

12.—All preparation and cooking of food by lodgers shall be in such rotation and according to such directions and conditions as shall be from time to time given or imposed by the Manager.

13.—Lodgers may have their clothing washed by the attendants on payment of a small charge ; or may wash their own clothing in the public laundry free of charge.

14.—All complaints must be made direct to the Manager.





